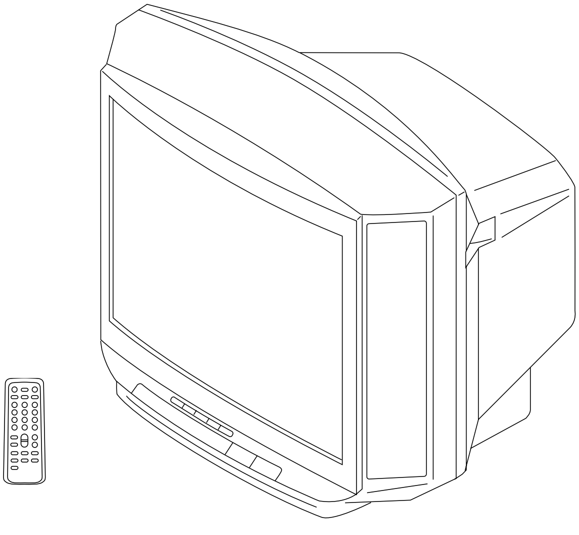
SERVICE MANUAL BG-1S (D) <REFINE> CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-J14KD7	RM-883	Vietnam	SCC-K26T-A
KV-J14KF7	RM-883	Vietnam	SCC-K26U-A

MODEL	COMMANDER	DEST.	CHASSIS NO.



MICROFILM

TRINITRON ® COLOR TV

SONY®

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, D/K	
Color system	PAL, PAL 60, NTSC4.43, NTSC3.58 (AV IN)	
Channel coverage		
B/G	VHF: E2 to E12/UHF: E21 to E69/CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12/UHF: C13 to C57, R21 to R60/ CATV: S01 to S03, S1 to S41, Z1 to Z39	
Audio output (speaker)	4W	KV-J14KD7
	3W + 3W	KV-J14KF7
Inputs	Antenna: 75 ohms	
	VIDEO IN jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms, high impedance	
Outputs	Earphone jack: minijack	KV-J14KD7
	Headphone jack: minijack	KV-J14KF7
	MONITOR OUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms	
Picture tube	14 in.	
Tube size (cm)	37	Measured diagonally
Screen size (cm)	34	Measured diagonally
Dimensions (w/h/d, mm)	456 × 343 × 416	
Mass (kg)	12	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

Section *Title* *Page*

1. GENERAL 4

2. DISASSEMBLY
   - 2-1. Rear Cover Removal 11
   - 2-2. A Board Removal 11
   - 2-3. Service Position 11
   - 2-4. Replacement of Parts 12
   - 2-5. Demagnetization Coil Removal 12
   - 2-6. Picture Tube Removal 13

3. SET-UP ADJUSTMENTS
   - 3-1. Beam Landing 14
   - 3-2. Convergence 15
   - 3-3. Focus Adjustment 17
   - 3-4. G2 (Screen) and White Balance Adjustments 17

4. SELF DIAGNOSIS FUNCTION 18

5. CIRCUIT ADJUSTMENTS
   - 5-1. Adjustments with Commander 19
   - 5-2. Adjustment Method 20
   - 5-3. A Board Adjustment after IC003 (Memory) Replacement... 23
   - 5-4. Picture Distortion Adjustment 23

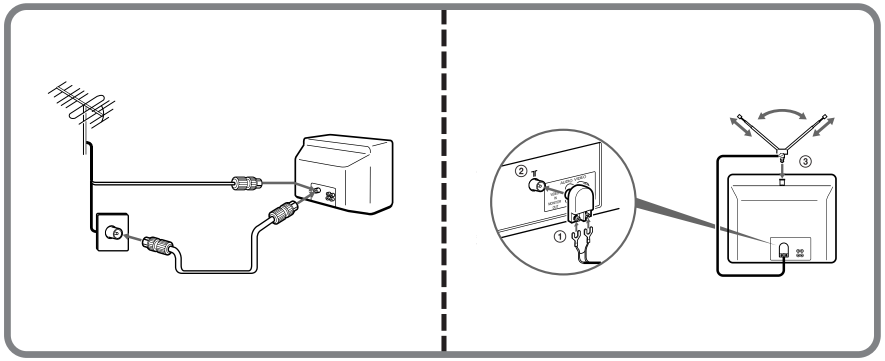
6. DIAGRAMS
   - 6-1. Block Diagram 25
   - 6-2. Circuit Boards Location 27
   - 6-3. Schematic Diagrams and Printed Wiring Boards . 27
     - (1) Schematic Diagram of A Board........................... 31
     - (2) Schematic Diagrams of A11, A12 and C Boards . 35
   - 6-4. Semiconductors 39

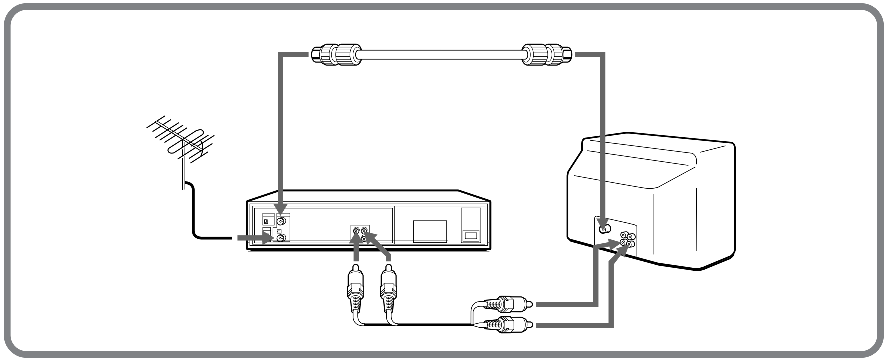
7. EXPLODED VIEW
   - 7-1. Chassis 41

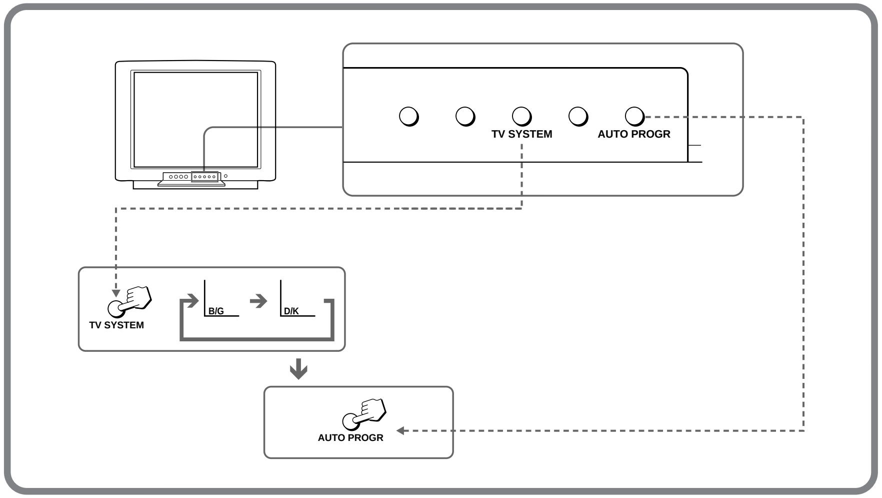
8. ELECTRICAL PARTS LIST.................................. 43

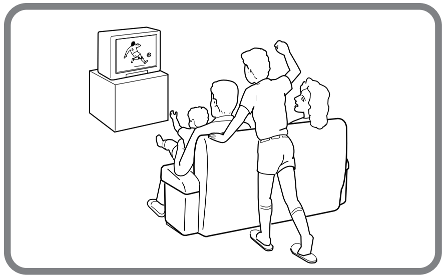
SECTION 1
GENERAL

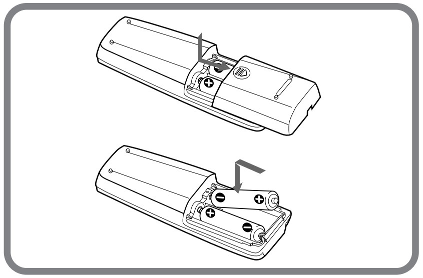
The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in this manual.






TV SYSTEM
AUTO PROGR
TV SYSTEM
B/G
D/K
AUTO PROGR

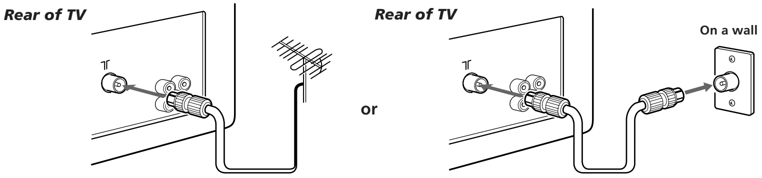




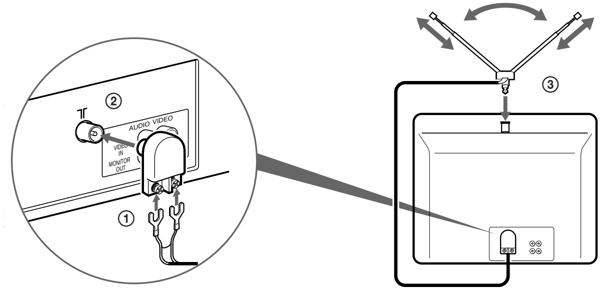
Connections

Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable.
Plug the connector into the ╥ (antenna) socket at the rear of the TV.


Rear of TV
╥
or
Rear of TV
╥
On a wall

Connecting an indoor antenna


╥
②
AUDIO VIDEO
VIDEO IN
MONITOR OUT
①
③

Note

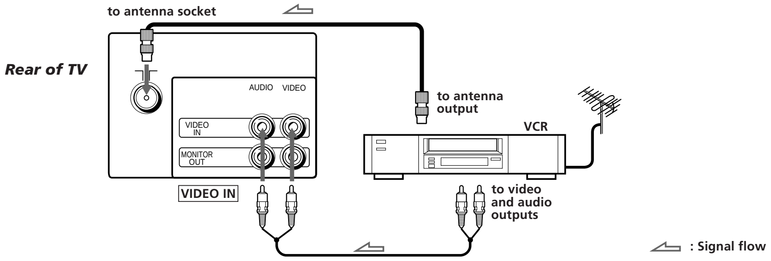
- You are advised to use an outdoor antenna for better reception.

Connecting optional equipment

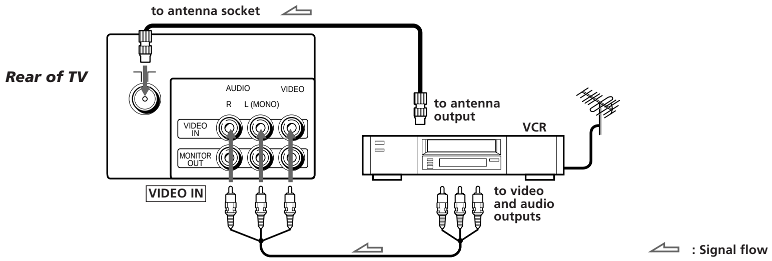
You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

Connecting video equipment using video input jacks

■ ***KV-J14KD7***

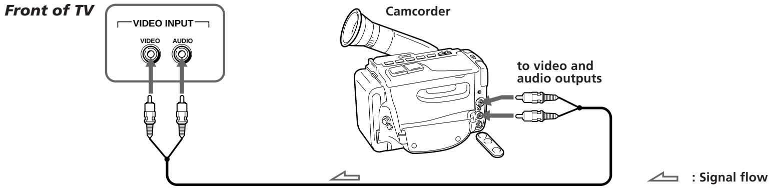

to antenna socket
Rear of TV
AUDIO VIDEO
VIDEO IN
MONITOR OUT
VIDEO IN
to antenna output
VCR
to video and audio outputs
: Signal flow

■ ***KV-J14KF7***

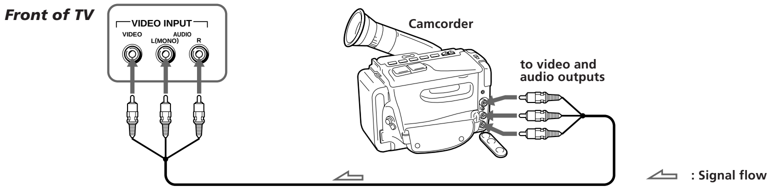

to antenna socket
Rear of TV
AUDIO VIDEO
R L (MONO)
VIDEO IN
MONITOR OUT
VIDEO IN
to antenna output
VCR
to video and audio outputs
: Signal flow

When connecting a monaural VCR
Connect the yellow plug to VIDEO and the black plug to AUDIO-L (MONO).

■ ***KV-J14KD7***


Front of TV
VIDEO INPUT
VIDEO AUDIO
Camcorder
to video and audio outputs
: Signal flow

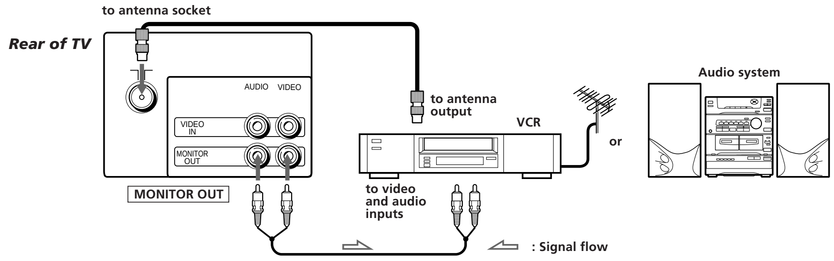
■ ***KV-J14KF7***


Front of TV
VIDEO INPUT
VIDEO AUDIO L(MONO) R
Camcorder
to video and audio outputs
: Signal flow

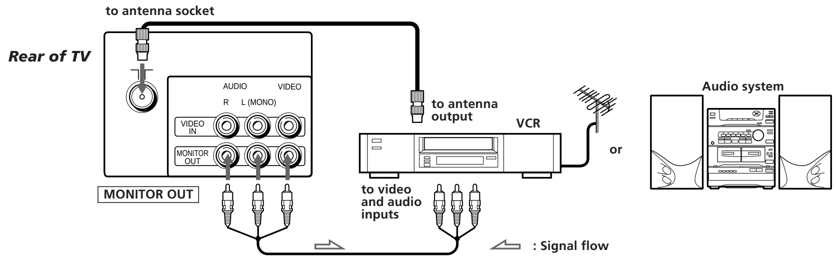
When using the video input jacks
Do not connect video equipment to the video input jacks at the front and the rear of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

Connecting audio/video equipment using MONITOR OUT jacks

■ ***KV-J14KD7***


to antenna socket
Rear of TV
AUDIO
VIDEO
VIDEO IN
MONITOR OUT
MONITOR OUT
to antenna output
VCR
or
Audio system
to video and audio inputs
: Signal flow

■ ***KV-J14KF7***


to antenna socket
Rear of TV
AUDIO
VIDEO
R
L (MONO)
VIDEO IN
MONITOR OUT
MONITOR OUT
to antenna output
VCR
or
Audio system
to video and audio inputs
: Signal flow

When recording through the MONITOR OUT jacks
If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

CAUTION
Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.

Presetting channels

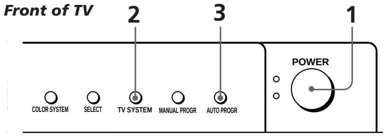
You can preset up to 100 TV channels in numerical sequence from program position 1 automatically.

To change the channel for a particular program position or to receive a channel with a weak signal, you can preset the channel manually. You can also disable program position.

You can preset TV channels using the buttons on the TV or the remote commander.

Presetting channels automatically using the buttons on the TV

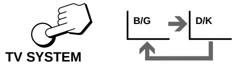
Front of TV


2
3
1
POWER
COLOR SYSTEM
SELECT
TV SYSTEM
MANUAL PROGR
AUTO PROGR

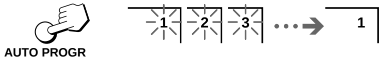
1 **Press POWER to turn on the TV.**

When the TV is turned on in standby mode, press POWER on the remote commander.

2 **Press TV SYSTEM until your local TV system appears.**


TV SYSTEM
B/G
D/K

3 **Press AUTO PROGR.**


AUTO PROGR
1
2
3
1

To start presetting channels automatically from the specified program position

1. Press MANUAL PROGR.
2. Press TV SYSTEM to select your local TV system.
3. Press PROGR +/– to select the program position.
4. Press AUTO PROGR.

Presetting channels manually using the buttons on the TV

1 **Press MANUAL PROGR.**

2 **Press PROGR +/– on the remote commander until the required program position appears on the screen.**

3 **Press TV SYSTEM until your local TV system appears.**

4 **Press VOLUME +/– until the required channel picture appears on the screen.**

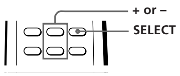
5 **Press MANUAL PROGR.**

If the TV system is not properly selected
The color of the picture may be poor and/or the sound may be noisy. In this case, select the appropriate TV system.

1. Press PROGR +/– on the remote commander to select the program position.
2. Press TV SYSTEM until the picture and sound become normal.

Notes
- If you do not know your local TV system, consult your nearest authorized service center or dealer.
- The setting of the TV SYSTEM is memorized for each program position.
- To preset channels again using the buttons on the TV, unlock all the locked channels that appear on the screen. To unlock a channel, refer to "Using the Child Lock feature" on page 13.
- If you use the remote commander to preset a locked channel, that particular channel will be unlocked automatically.

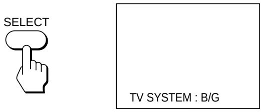
Presetting channels automatically using the remote commander



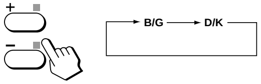
1. **Press POWER to turn on the TV.**

When the TV is turned on in standby mode, press POWER on the remote commander.

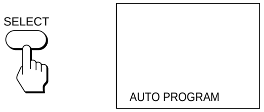
2. **Press SELECT until "TV SYSTEM" appears.**



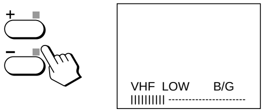
3. **Press + or – to select your local TV system.**



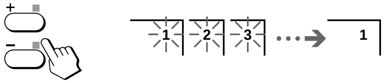
4. **Press SELECT until "AUTO PROGRAM" appears.**



5. **Press + or – .**

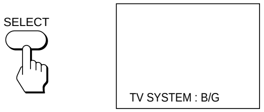


6. **Press + or – .**

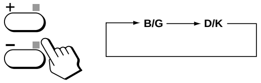


Presetting channels manually using the remote commander

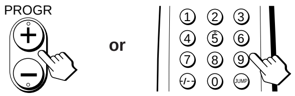
1. **Press SELECT until "TV SYSTEM" appears.**



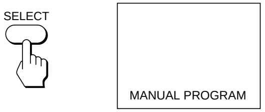
2. **Press + or – to select your local TV system.**



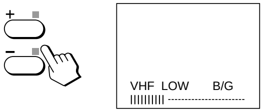
3. **Press PROGR +/– or a number button until the required program appears on the screen.**



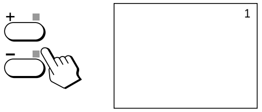
4. **Press SELECT until "MANUAL PROGRAM" appears.**



5. **Press + or – .**

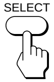


6. **Press + or – .**



The selected channel appears on the screen.

7. **Press SELECT to return to normal screen.**



Disabling program positions using the buttons on the TV

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/– on the remote commander.

1. **Press PROGR +/– on the remote commander until the unused or unwanted program position appears on the screen.**
2. **Press MANUAL PROGR.**
3. **Press PIC MODE on the remote commander.**
4. **Press MANUAL PROGR.**

To cancel the skip setting
Preset the channel manually or automatically again.

If you are not satisfied with the picture and sound quality

You may be able to further improve the picture and sound quality by using fine tuning as below:

1. **Select the program position you want to adjust.**
2. **Press SELECT until "MANUAL PROGRAM" appears on the screen.**
3. **Press + or – on the remote commander once.**
4. **Press DISP until "FINE" appears on the screen.**
5. **Press + or – continuously until you are satisfied with the picture and sound quality.**
6. **Press SELECT to return to normal screen.**

Watching the TV

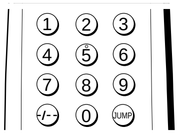
1 Press POWER to turn on the TV.

When the TV is turned on in standby mode, press POWER on the remote commander.

2 Select the TV program you want to watch.

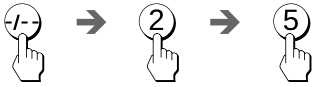
To select a program position directly

Press the number button.


1
2
3
4
5
6
7
8
9
-/--
0
JUMP

To select a two-digit program position, press "-/--" before pressing the number buttons.

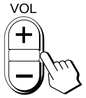
For example: to select program position 25, press "-/--," and then "2" and "5."



To scan through program positions

Press PROGR +/– until the program position you want appears.

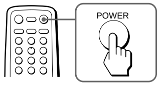
3 Press VOL +/– to adjust the volume.



Turning off the TV

To turn off the TV temporarily

Press POWER on the remote commander. The STANDBY indicator on the TV lights up.



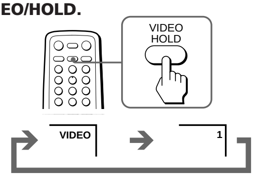
To turn off the TV completely

Press POWER on the TV.

If the power on the TV is turned off in standby mode, the STANDBY indicator on the TV may remain alight for a while.

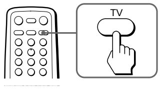
Watching the video input

Press VIDEO/HOLD.


VIDEO HOLD
VIDEO
1

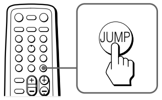
To watch TV

Press TV.



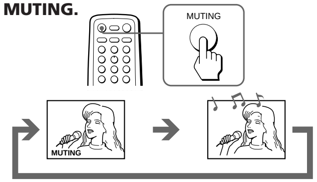
Switching back quickly to the previous channel

Press JUMP.



Muting the sound

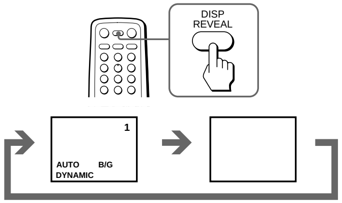
Press MUTING.


MUTING
MUTING

Displaying on-screen information

Press DISP/REVEAL.

The program position, local system, and TV settings are displayed on the screen.

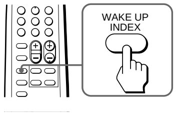

DISP REVEAL
1
AUTO B/G
DYNAMIC

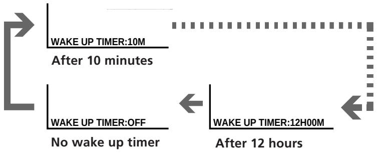
Setting the Wake Up Timer

You can set the TV to automatically turn on as you have programmed.

1 Press WAKE UP/INDEX repeatedly to set the timer.

The on-screen display appears and the WAKE UP indicator on the TV lights up.


WAKE UP INDEX


WAKE UP TIMER:10M
After 10 minutes
WAKE UP TIMER:12H00M
After 12 hours
WAKE UP TIMER:OFF
No wake up timer

2 If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video input.

3 Press POWER on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

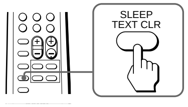
Notes

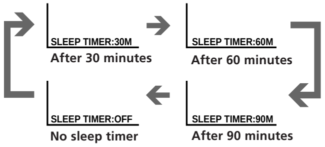
- The Wake Up Timer starts immediately after the on-screen display disappears.
- The last TV program position or video input just before the TV turns into standby mode will appear when the TV is turned on using the Wake Up Timer.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up Timer, the TV automatically turns into standby mode. If you want to continue watching the TV, press any button or control on the TV or the remote commander or the TV.

Setting the Sleep Timer

You can set the TV to automatically turn off as you have programmed.

Press SLEEP/TEXT CLR.

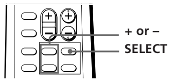

SLEEP TEXT CLR


SLEEP TIMER:30M
After 30 minutes
SLEEP TIMER:60M
After 60 minutes
SLEEP TIMER:90M
After 90 minutes
SLEEP TIMER:OFF
No sleep timer

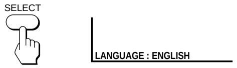
To cancel the Sleep Timer, press SLEEP/TEXT CLR repeatedly until "SLEEP TIMER: OFF" appears, or turn off the TV.

Changing the on-screen display language

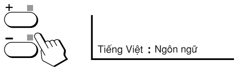
You can use buttons on the remote commander or the TV to change the on-screen display language.



1 Press SELECT until the screen appears as follows:


SELECT
LANGUAGE : ENGLISH

2 Press + or – to select " Tiếng Việt **".**

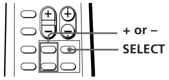

+
–
Tiếng Việt : Ngôn ngữ

Note

- You can also use SELECT and VOLUME +/– on the TV to select the on-screen display language.

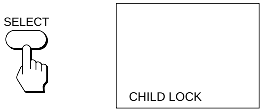
Using the Child Lock feature

You can prevent a child from watching certain channels by using the buttons on the remote commander.

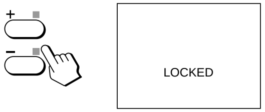


1 **Select the channels you want to lock.**

2 **Press SELECT until "CHILD LOCK" appears on the screen.**


SELECT
CHILD LOCK

3 **Press + or – until "LOCKED" appears on the screen.**



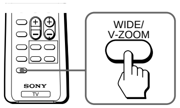
Notes

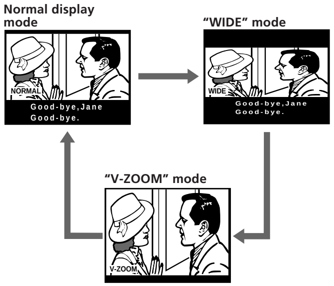
- To unlock the channel, repeat steps 1 to 3 as above until "LOCKED" disappears from the screen.
- To prevent your child from unlocking the channel, keep the remote commander away from your child.

Watching the picture in wide mode

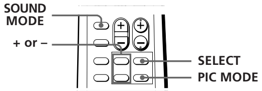
You can adjust the display mode accordingly to fit the programs to your TV screen size.

Press WIDE/V-ZOOM repeatedly until the wide display mode you want appears on the screen.


WIDE/
V-ZOOM
SONY


Normal display mode
"WIDE" mode
"V-ZOOM" mode
NORMAL
WIDE
V-ZOOM
Good-bye,Jane
Good-bye.

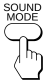
Adjusting the sound and picture


SOUND MODE
+ or –
SELECT
PIC MODE

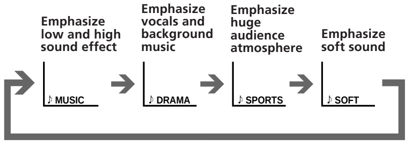
Selecting the sound mode

■ ***KV-J14KF7 only***

Press SOUND MODE until the mode you want appears.



Each time you press SOUND MODE, the screen changes as follows:

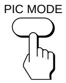

Emphasize low and high sound effect
Emphasize vocals and background music
Emphasize huge audience atmosphere
Emphasize soft sound
♪ MUSIC
♪ DRAMA
♪ SPORTS
♪ SOFT

Note on the SOUND MODE button (KV-J14KD7)

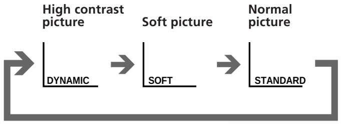
- The sound mode feature is unavailable for your TV. Thus, the SOUND MODE button on the remote commander is not used for your TV.

Selecting the picture mode

Press PIC MODE until the mode you want appears.



Each time you press PIC MODE, the screen changes as follows:

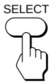

High contrast picture
Soft picture
Normal picture
DYNAMIC
SOFT
STANDARD

Note

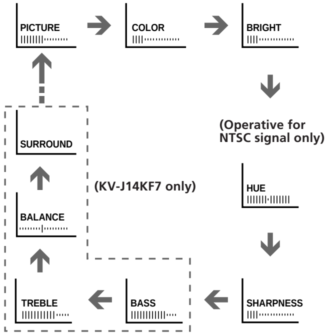
- If you change the picture and sound mode after the following adjustments, the adjustment changes in accordance with the picture and sound mode.

Adjusting the sound and picture settings

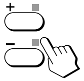
1 **Press SELECT until the item you want to adjust appears.**



Each time you press SELECT, the screen changes as follows:


PICTURE
COLOR
BRIGHT
(Operative for NTSC signal only)
HUE
SHARPNESS
BASS
TREBLE
BALANCE
SURROUND
(KV-J14KF7 only)

2 **Press + or – to adjust the item.**

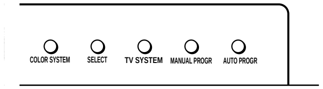


3 **To adjust other items, repeat steps 1 and 2.**

Notes

- You can also use SELECT and VOLUME +/– on the TV to adjust the sound and picture settings.
- The on-screen display for BASS, TREBLE, BALANCE and SURROUND are available for KV-J14KF7 only.
- SURROUND is only applicable to a stereo signal. When receiving a monaural signal, please turn off SURROUND for the best sound (KV-J14KF7 only).

Front of TV



If the picture color is abnormal when receiving programs through the ⫪ (antenna) terminal
Change the “TV SYSTEM” or “COLOR SYSTEM” setting or adjust the “COLOR” level in the on-screen display until the color becomes normal.

If the picture color is abnormal when receiving programs through the video input jack
Change the “COLOR SYSTEM” setting or adjust the “COLOR” level in the on-screen display until the color becomes normal.

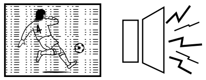
Note
- Normally set “COLOR SYSTEM” to “AUTO”.

If the sound is distorted or noisy when receiving programs through the ⫪ (antenna) terminal
Change the “TV SYSTEM” setting in the on-screen display until the sound becomes clear.

Troubleshooting

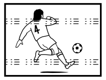
If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.
If the problem persists, contact your nearest authorized service center or dealer.

Snowy picture
Noisy sound



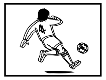
➡Check the antenna.
➡Check the antenna connection on the TV and on the wall.
➡Check the TV SYSTEM setting.

Dotted lines or stripes



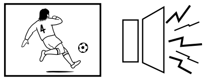
➡This may be caused by local interference (e.g. cars, neon signs and hair dryers). Adjust the antenna for minimum interference.

Double images or “ghosts”



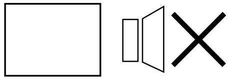
➡This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

Good picture
Noisy sound



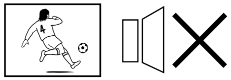
➡Check the TV SYSTEM setting.
➡Reduce the TREBLE level or select the “SOFT” sound mode (KV-J14KF7).

No picture
No sound



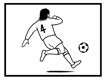
➡Press POWER.
➡Check the antenna connection.
➡Check the VCR connections.
➡Check the power cord connection.
➡Check the standby mode.

Good picture
No sound



➡Press VOLUME +.
➡Press MUTING.

No color



➡Adjust the COLOR level in the on-screen display.
➡Check the COLOR SYSTEM setting.

TV cabinet creaks
➡Even if the picture or the sound is normal, changes in the room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.

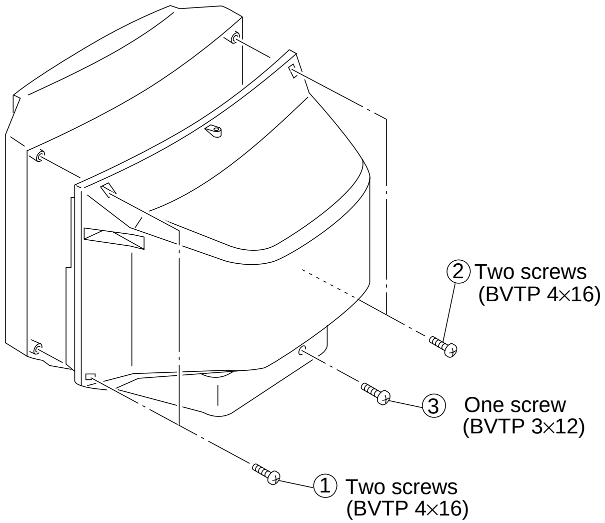
Note on the remote commander
- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

Notes
- When you switch on the TV, you may hear the “boon” sound that is caused by the demagnetization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press POWER on the TV to switch off the TV for five minutes and then switch it on again.

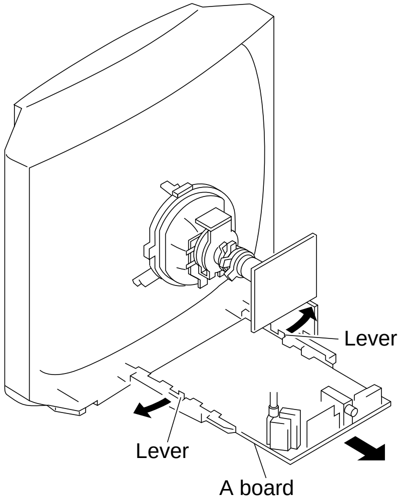
WARNING
Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.

SECTION 2
DISASSEMBLY

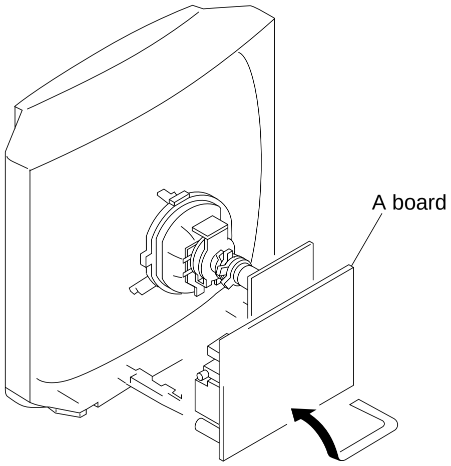
2-1. REAR COVER REMOVAL


② Two screws (BVTP 4×16)
③ One screw (BVTP 3×12)
① Two screws (BVTP 4×16)

2-2. A BOARD REMOVAL


Lever
Lever
A board

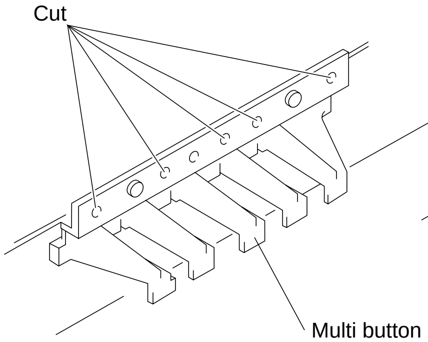
2-3. SERVICE POSITION

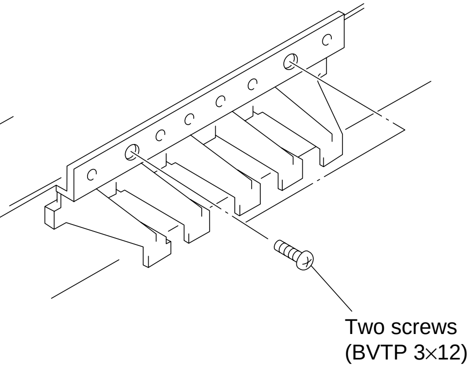


2-4. REPLACEMENT OF PARTS

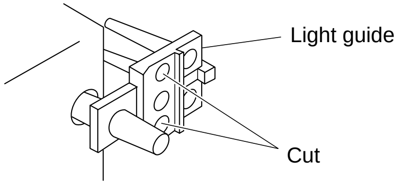
For replacement of the Multi Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

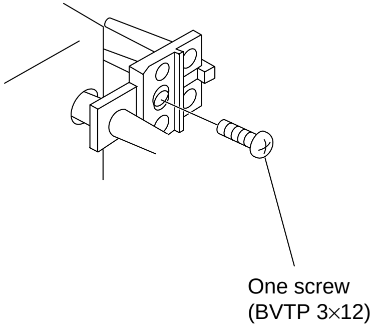
2-4-1. REPLACEMENT OF MULTI BUTTON


Cut
Multi button

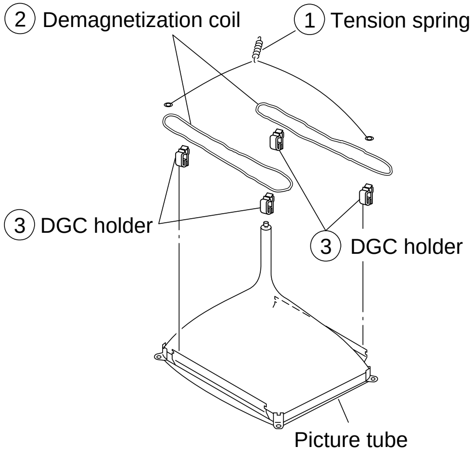

Two screws
(BVTP 3×12)

2-4-2. REPLACEMENT OF LIGHT GUIDE

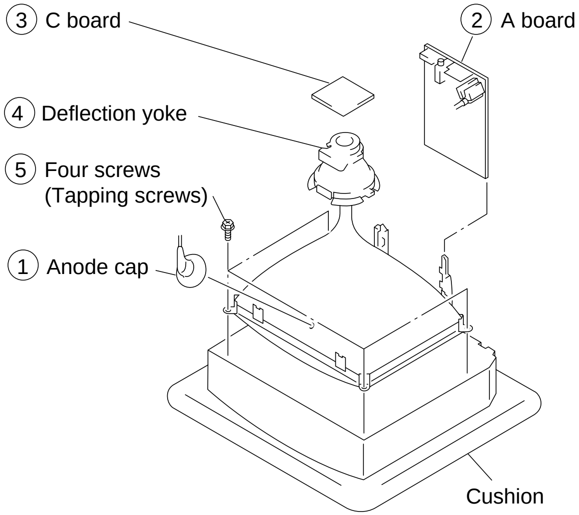

Light guide
Cut


One screw
(BVTP 3×12)

2-5. DEMAGNETIZATION COIL REMOVAL


② Demagnetization coil
① Tension spring
③ DGC holder
③ DGC holder
Picture tube

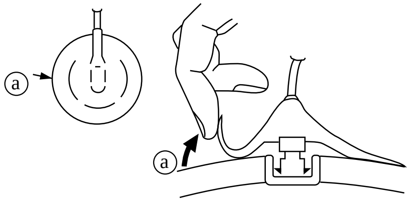
2-6. PICTURE TUBE REMOVAL


③ C board
② A board
④ Deflection yoke
⑤ Four screws (Tapping screws)
① Anode cap
Cushion

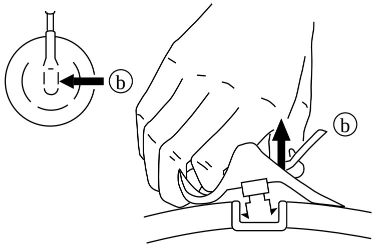
•REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

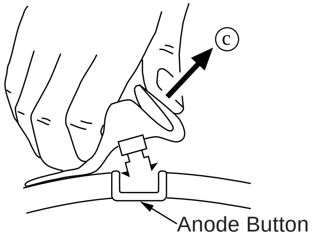
•REMOVING PROCEDURES



① **Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.**



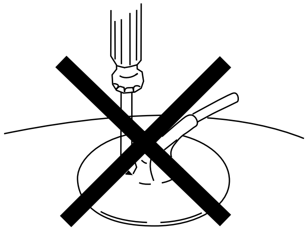
② **Using a thumb press down, then pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.**

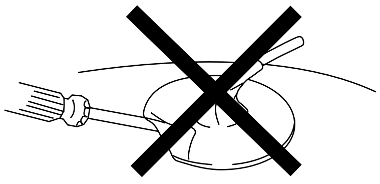

c
Anode Button

③ **When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ⓒ.**

- **HOW TO HANDLE AN ANODE-CAP**

① **Do not damage the surface of anode-cap with sharp shaped objects.**
② **Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.**
③ **Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.**





SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:
PICTURE control .... normal
BRIGHTNESS control .... normal

Perform the adjustments in the following order:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required:

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

……

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
   Contrast } normal
   Brightness }
2. Set the pattern generator raster signal to green.
3. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
   (See Figures 3-1 through 3-3.)
4. Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
5. Switch the raster signal to blue, then to red and verify the condition.
6. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
7. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)

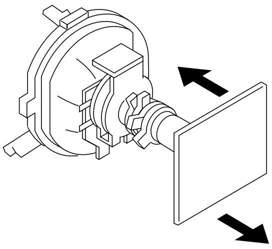


Fig. 3-1

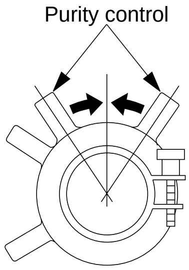

Purity control

Fig. 3-2

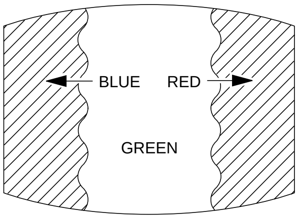

BLUE
RED
GREEN

Fig. 3-3

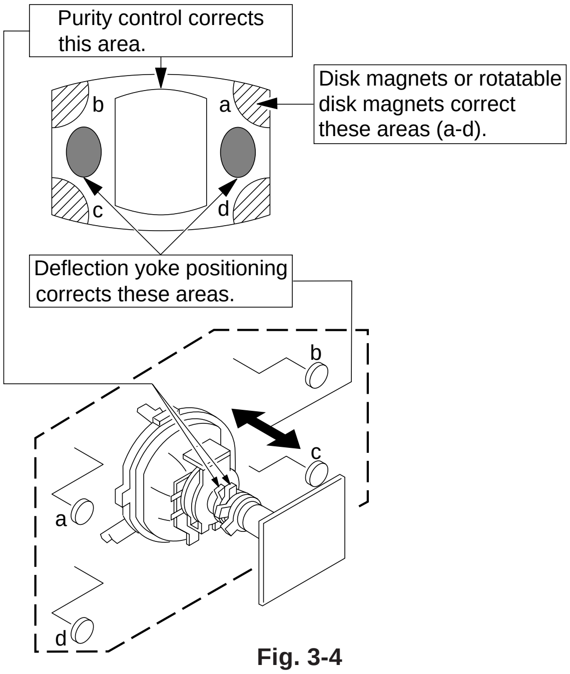

Purity control corrects this area.
Disk magnets or rotatable disk magnets correct these areas (a-d).
b
a
c
d
Deflection yoke positioning corrects these areas.
b
c
a
d

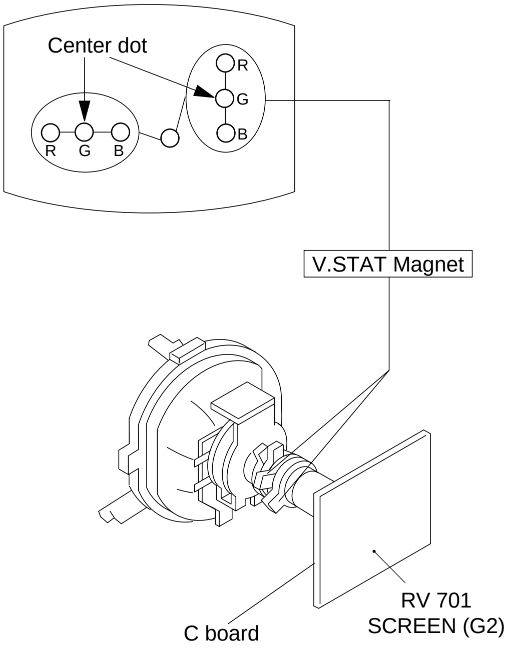
Fig. 3-4

3-2. CONVERGENCE

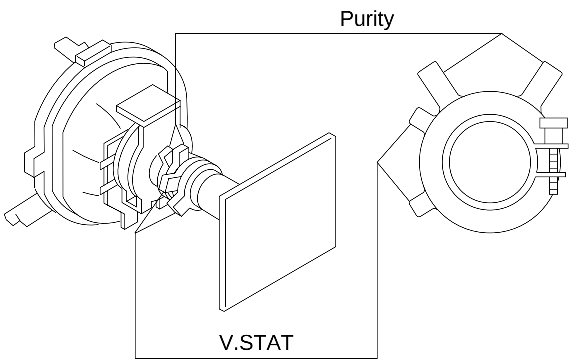
Preparation :

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

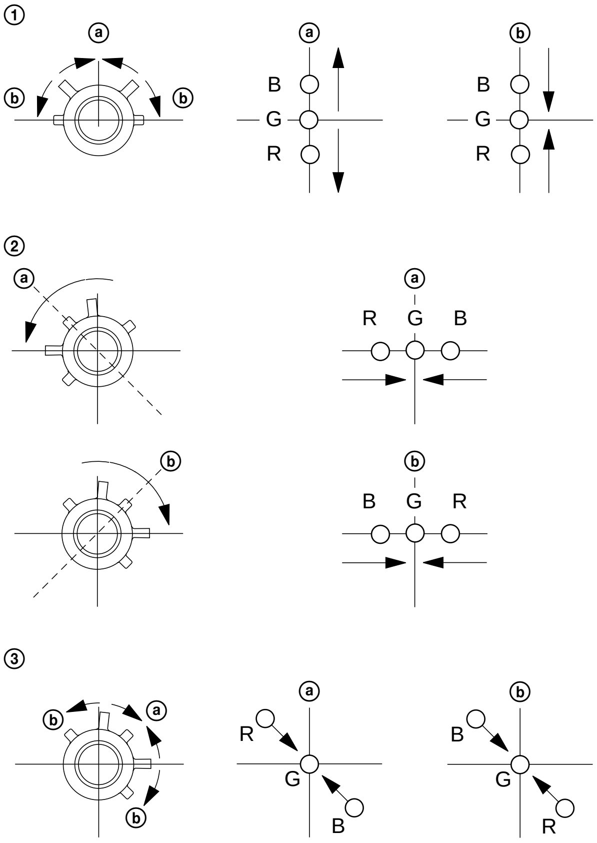
(1) Horizontal and Vertical Static Convergence


Center dot
R
G
B
R
G
B
V.STAT Magnet
RV 701
SCREEN (G2)
C board

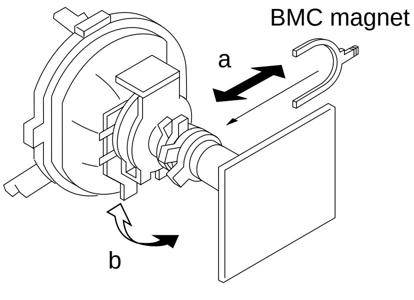
1. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the H.STAT VR so that the red, green and blue dots are on top of each other at the center of the screen.


Purity
V.STAT

- Operation of V.STAT magnet.
  If the V.STAT magnet is moved in the direction of the ⓐ and ⓑ arrows, the red, green and blue dots move as shown below.


①
ⓐ
ⓑ
ⓑ
ⓐ
B
G
R
ⓑ
B
G
R
②
ⓐ
ⓐ
R G B
ⓑ
ⓑ
B G R
③
ⓑ
ⓐ
ⓑ
ⓐ
R
G
B
ⓑ
B
G
R

- Operation of BMC (Hexapole) magnet.
  If the blue or red dot does not converge with the other two dots, perform following steps.
  Move BMC magnet (a) to correct insufficient H.static convergence.
  Rotate BMC magnet (b) to correct insufficient V.static convergence.
  In either case, repeat Beam Landing Adjustment.

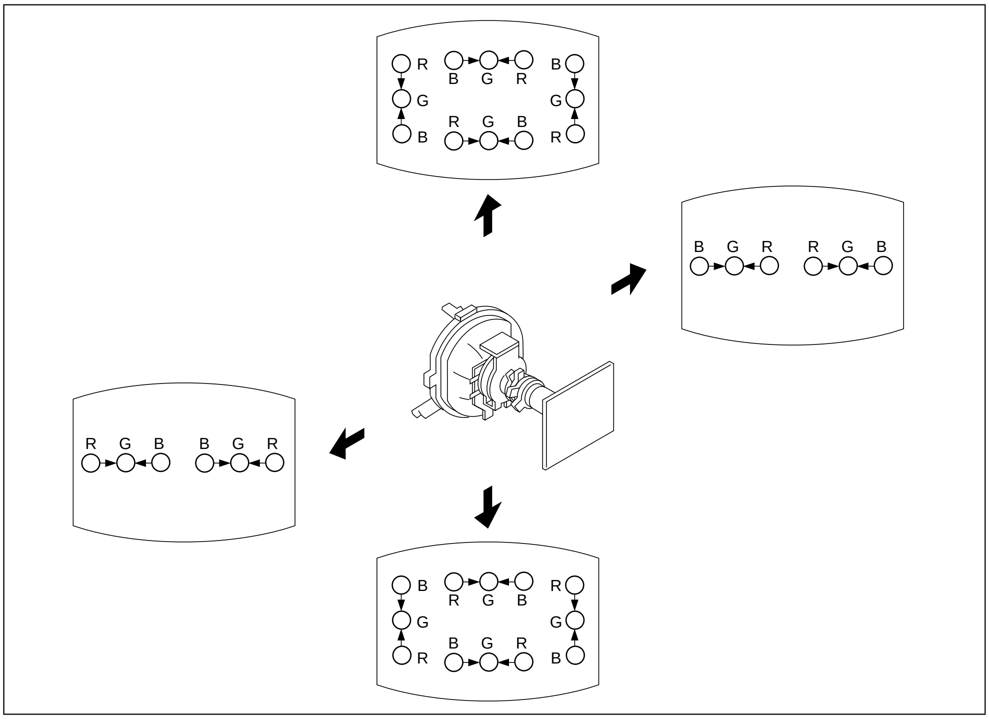

BMC magnet
a
b

(2) Dynamic Convergence Adjustment

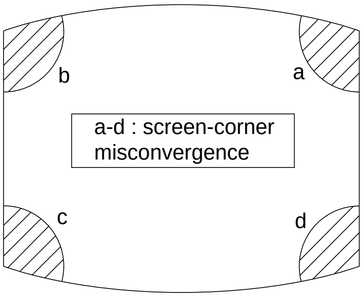
Preparation :

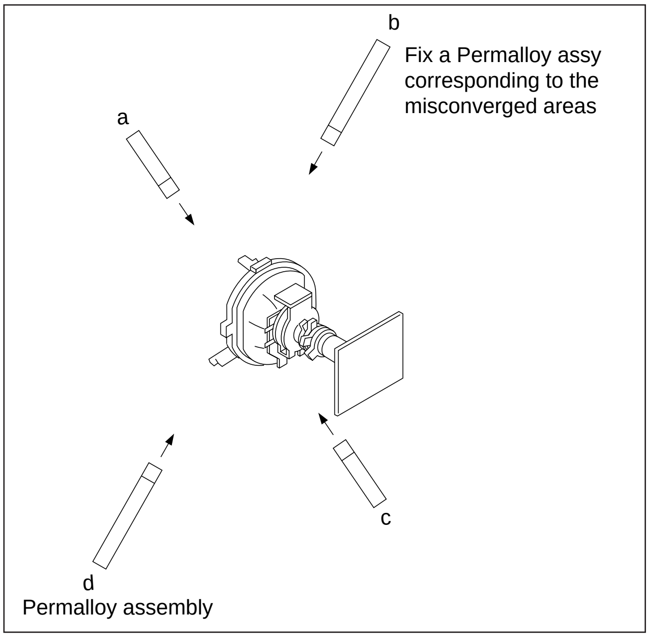
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.


R
B G R
B
G
G
B
R G B
R
B G R
R G B
R G B
B G R
B
R G B
R
G
G
R
B G R
B

(3) Screen-corner Convergence


b
a
a-d : screen-corner misconvergence
c
d


b
Fix a Permalloy assy corresponding to the misconverged areas
a
c
d
Permalloy assembly

3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the C board (RV703) for the best focus.

3-4. ADJUSTMENT WITH COMMANDER

a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	25	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

b. METHOD OF CANCELLATION FROM SERVICE MODE

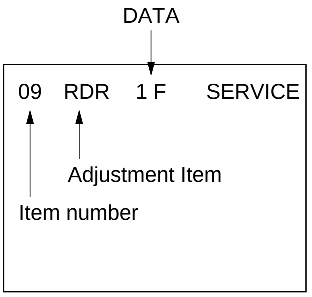
Set the standby condition (Press POWER button on the commander) and then press POWER button again, hereupon it becomes TV mode.

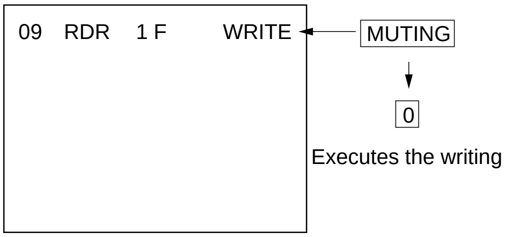
c. METHOD OF WRITE FOR MEMORY

1) Set to Service Mode.
2) Press 1 (UP) and 4 (DOWN) to select an item of adjustments.
3) Press MUTING button and it will indicate WRITE on screen.
4) Press 0 button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
2) Turn the power switch ON and set to Service Mode.
3) Call the adjusted items again, confirm they were adjusted.

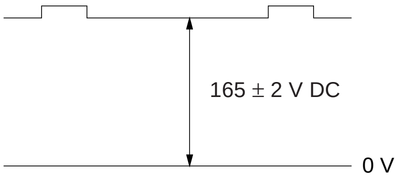




3-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT (RV701)

1) Set the PICTURE and BRIGHTNESS to normal.
2) Put to VIDEO input mode without signals.
3) Connect R, G and B of the C board cathode to the oscilloscope.
4) Adjust G2 (RV701) volume to the value below.



2. WHITE BALANCE ADJUSTMENTS

1) Set to Service Mode.
2) Input an entire white signal.
3) Set the PICTURE to maximum.
4) Select RDR(09) with 1 and 4, and then set the level to 25 with 3 and 6.
5) Select GDR(0A) and BDR(0B) with 1 and 4 and adjust the level with 3 and 6 for the best white balance.
6) Write into the memory by pressing MUTING, then 0.

SECTION 4

SELF DIAGNOSIS FUNCTION

If no acknowledgement is returned from a device which is turned "ON", the device has a problem.
In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ss each time.

The flickering frequency responding to each failed device is shown below.

Device	NONVOLATILE MEMORY (IC003)	—	Y/C JUNGLE (IC300)	—	—	TONE CONTROL (IC201)
Flickering Frequency	1	—	3	—	—	6

All the devices are checked one after another from the left of the table.
If an error is found, the responding LED will start flickering.
So, if more than 1 device have failed, only the one on the left side will flicker.

SECTION 5
CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-883 that comes with this unit.

Entering service mode

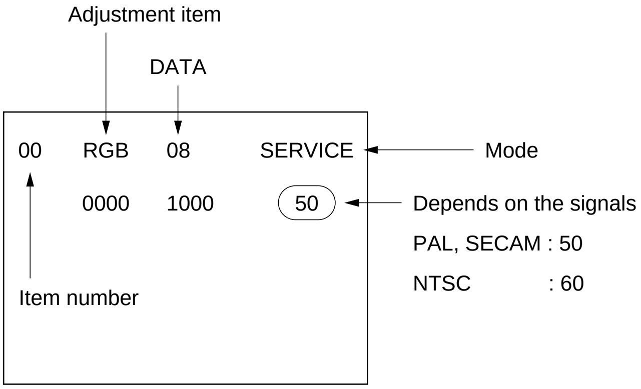
With the unit on standby
↓
DISPLAY
↓
5
↓
VOL (+)
↓
POWER

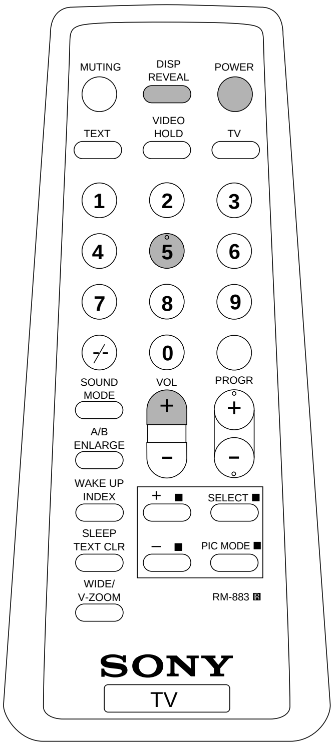
The operation sequence puts the unit into service mode.

1, 4	Raise/lower the service item number
3, 6	Raise/lower the data
MUTING	Writes
0	Executes the writing

7, 0	All data becomes the values in memory
8, 0	All user control goes to the standard state
5, 0	Service data initialization (Be sure not to use usually.)
2, 0	Write 50Hz adjustment data to 60Hz, or viceversa.

The screen display is :


Adjustment item
DATA
00
RGB
08
SERVICE
Mode
0000
1000
50
Depends on the signals
PAL, SECAM : 50
NTSC : 60
Item number


MUTING
DISP REVEAL
POWER
TEXT
VIDEO HOLD
TV
1
2
3
4
5
6
7
8
9
-/--
0
SOUND MODE
VOL
PROGR
+
–
A/B ENLARGE
WAKE UP INDEX
+ ■
SELECT ■
SLEEP TEXT CLR
– ■
PIC MODE ■
WIDE/ V-ZOOM
RM-883
SONY
TV

RM-883

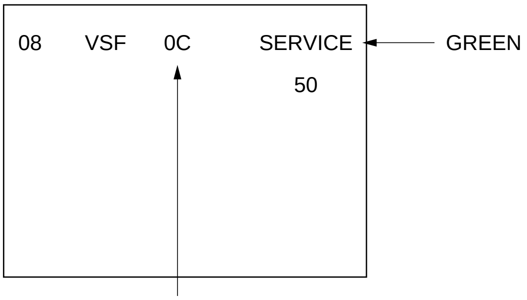
1, 4	Select the adjustment item.
↓	
3, 6	Raise/lower the data.
↓	
MUTING	Writes
↓	
0	Executes the writing.

5-2. ADJUSTMENT METHOD

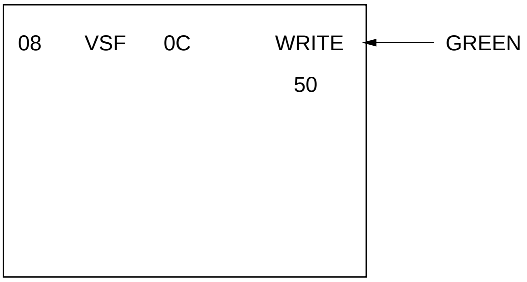
Item Number 08

This explanation uses V-SHIFT as an example.

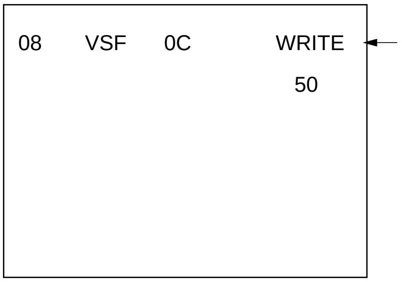
1. Select 08 V-SHIFT with the 1 and 4 buttons.
2. Raise/lower the data with the 3 and 6 buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the MUTING button.
5. Execute the writing with the 0 button. (The WRITE display returns to green SERVICE.)



Ajust with the 3 and 6 buttons.



Written with the MUTING.



GREEN
The WRITE display will change back to SERVICE.

Write executed with 0 .

Use the same method for Items Number 00-2F. Use 1 and 4 to select the adjustment item, use 3 and 6 to adjust, write with MUTING, then execute the write with 0.

Adjustment Item Table

Item number	Adjustment Item	Data range	Initial data	Standard data	Note	Device
00	HSF	00–3F			H SHIFT	TDA8375
01	HSZ	00–3F			H SIZE	TDA8375
02	PAP	00–3F			PIN AMPLITUDE	TDA8375
03	CNP	00–3F			CORNER PIN	TDA8375
04	TLT	00–3F			TILT	TDA8375
05	VSL	00–3F			V SLOPE	TDA8375
06	VAP	00–3F			V AMPLITUDE	TDA8375
07	SCR	00–3F			S CORRECTION	TDA8375
08	VSF	00–3F			V SHIFT	TDA8375
09	RDR	00–3F	25		WHITE POINT R	TDA8375
0A	GDR	00–3F	20		WHITE POINT G	TDA8375
0B	BDR	00–3F	20		WHITE POINT B	TDA8375
0C	FO	00–03	00	TV: 00 VIDEO: 00 TEXT: 01	Ø-1 TIME CONSTANT	TDA8375
0D	AGC	00–3F	30	TV: 30 VIDEO: 30 TEXT: 30	AGC TAKE OVER	TDA8375
0E	VSW	00–01	00	TV: 00 VIDEO: 01 TEXT: 00	VIDEO MUTE	TDA8375
0F	FOR	00–03	03		FORCED FIELD FREQ.	TDA8375
10	DL	00–01	00		INTERLACE	TDA8375
11	POC	00–01	00		SYNCHRO MODE FIX	TDA8375
12	VID	00–01	00		VIDEO IDENT MODE	TDA8375
13	HCO	00–01	00		EHT TRACKING MODE	TDA8375
14	EVG	00–01	00		ENABLE V GUARD	TDA8375
15	SBL	00–01	00		SERVICE BLANKING	TDA8375
16	PRD	00–01	00		OVER-VOLTAGE INPUT	TDA8375
17	COR	00–01	00		NOISE CORING PEAK	TDA8375
18	PMX	00–3F	2B		PICTURE MAX DATA	TDA8375
19	PMI	00–3F	04		PICTURE MIN DATA	TDA8375
1A	SBR	00–7F	4B		SUB-BRIGHTNESS	TDA8375
1B	SHU	00–0F	07		SUB-HUE	TDA8375
1C	SSH	00–03	01	TV: 01 VIDEO: 02	SUB-SHARPNESS	TDA8375
1D	SC1	00–3F	1F	50: 26 60: 20	SUB-COLOR LOWER	TDA8375
1E	SC2	00–3F	0D	50: 0C 60: 0D	SUB-COLOR HIGHER	TDA8375
1F	AIP	00–7F	3F		ADJUSTMENT IF-PLL	TDA8375
20	VZM	00–3F	19		VERTICAL ZOOM	TDA8375
21	TXP	00–0F	07		TEXT PICTURE	SAA5281
22	MXP	00–0F	0A		TEXT MIX MODE PICTURE	SAA5281
23	BKP	00–3F	00		BLK OFF PICTURE	µ-CON
24	ODL	00–FF	10		POWER ON DELAY	µ-CON
25	OFR	00–0F	00		STBY → ON RGB OUT	µ-CON
26	OFM	00–0F	00		MAIN POWER RGB OUT	µ-CON
27	OSH	00–3F	0A		OSD POSITION H	µ-CON
28	MUT	00–01	00		NO SYNC. MUTE	µ-CON
29	ABL	00–01	00		BRIGHT ABL	µ-CON
2A	DTV	00–00	00		DISABLE TV KEY	µ-CON
2B	SCM	00–01	00		SECAM TRAP ACTIVE	µ-CON
2C	ROC	00–0F	07		ROTATION CENTER	µ-CON
2D	ROS	00–07	03		ROTATION STEP WIDTH	µ-CON
2E	DVM	00–01	00		DISABLE VM	µ-CON
2F	POM	00–01	01		PORT MUTE	µ-CON
30	FBT	00–01	01		C/M FOR FBT LAYER SHORT	µ-CON
31	OP0	00–FF	0E		OPTION 0	µ-CON
32	OP1	00–FF	06		OPTION 1	µ-CON
33	OP2	00–FF	26		OPTION 2	µ-CON

NOTE

- Standard Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.
  In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 .... 50 Hz data
- 60 .... 60 Hz data
- Standard data listed on the adjustment item table are reference values, therefore it is different for every model.

ITEM INFORMATION

- 10. DL: TV/MIX Mode 0=Interlace 1=interlace, TEXT Mode 0=interlace 1=Interlace
- 29. ABL: Bright ABL ON/OFF ON=1 OFF=0
- 31. OP0 • 32. OP1 • 33. OP2
  Input data are different according to models.
  AV INPUT : 00 → NO MODEL, 01 → MONO, CXA1315, 10/11 → STEREO, TDA8424
  TV System : 00 → Multi model, 01 → B/G, 10 → D/K.I, 11 → B/G D/K
  NTSC, SECAM
  Shrp : Dynamic Mode @ 1 → Sharpness 50%, 0 → Sharpness 70%.

No. 31 OP0 * Input data are different according to models

Item	Tilt	AV Input		Sharp 50%	Remote Preset	Auto Program	Vietnam	Reserved
KV-J14KD7	0	0	1	0	1	1	1	0
KV-J14KF7	0	1	0	0	1	1	1	0

No. 32 OP1

Item	Video Text	Volume 1	Thai	TV System		NTSC 3.58	SECAM	Reserved
KV-J14KD7	0	0	0	1	1	1	0	0
KV-J14KF7	0	0	0	1	1	1	0	0

No. 33 OP2

Item	–	–	Child Lock	Space Sound	High Dev.	100 Prog	4:3 Wide	S Video
KV-J14KD7	0	0	1	0	0	1	1	0
KV-J14KF7	0	1	1	0	0	1	1	0

5-3. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.

2. Press commander buttons 5 and 0 (Data Initialize), and 2 and 0 (Data Copy) to initialize the data.

3. Call each item number, and check if the respective screen shows the normal picture.
   In case some items are not well-adjusted, give them fine adjustment.
   Write the data per each item number (MUTING + 0).

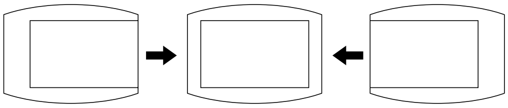
4. Select item numbers “31” (OP0), “32” (OP1) and “33” (OP2) and respectively set the bit per model with command buttons 3 and 6.

5. Press commander buttons 8 and 0 (Test Normal) to return to the data that was set on the shipment from the factory.
   (= Cancel Service Mode.)

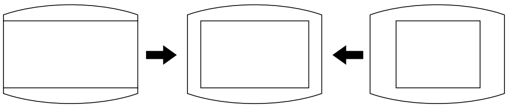
5-4. PICTURE DISTORTION ADJUSTMENT

Item Number 00 – 08

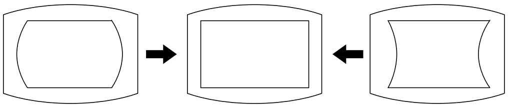
00 HSF (H SHIFT)



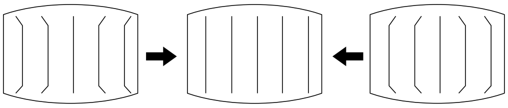
01 HSZ (H SIZE)



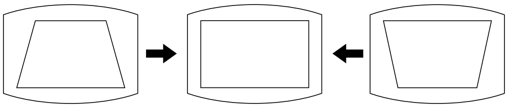
02 PAP (PIN AMPLITUDE)



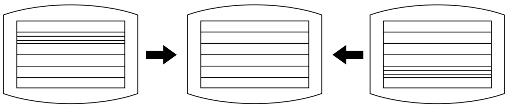
03 CNP (CORNER PIN)



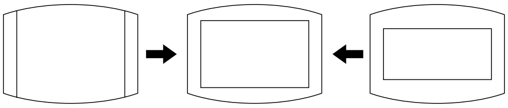
04 TLT (TILT)



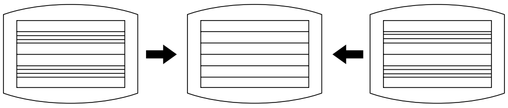
05 VSL (V SLOPE)



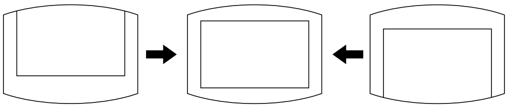
06 VAP (V AMPLITUDE)



07 SCR (S CORRECTION)

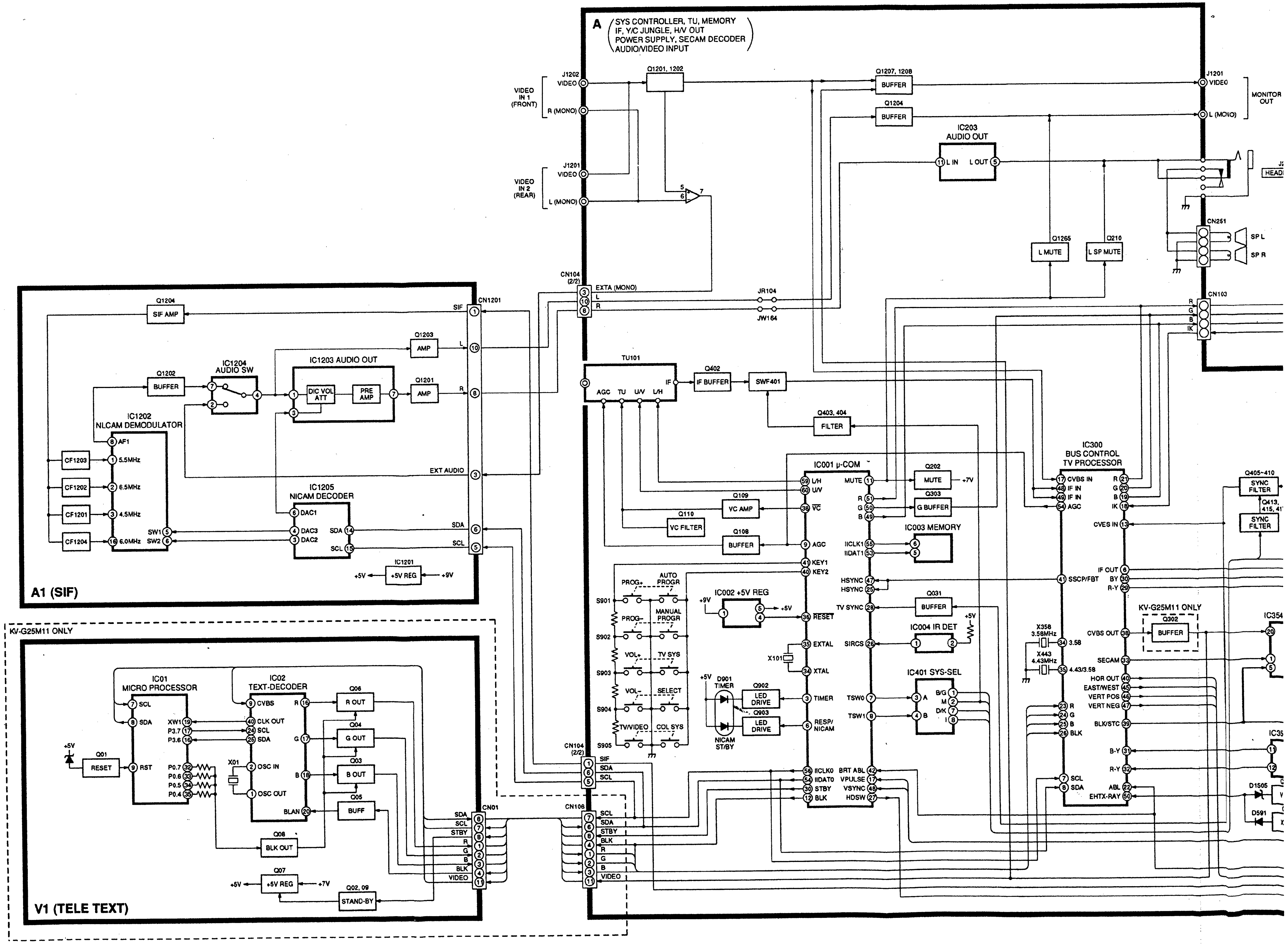


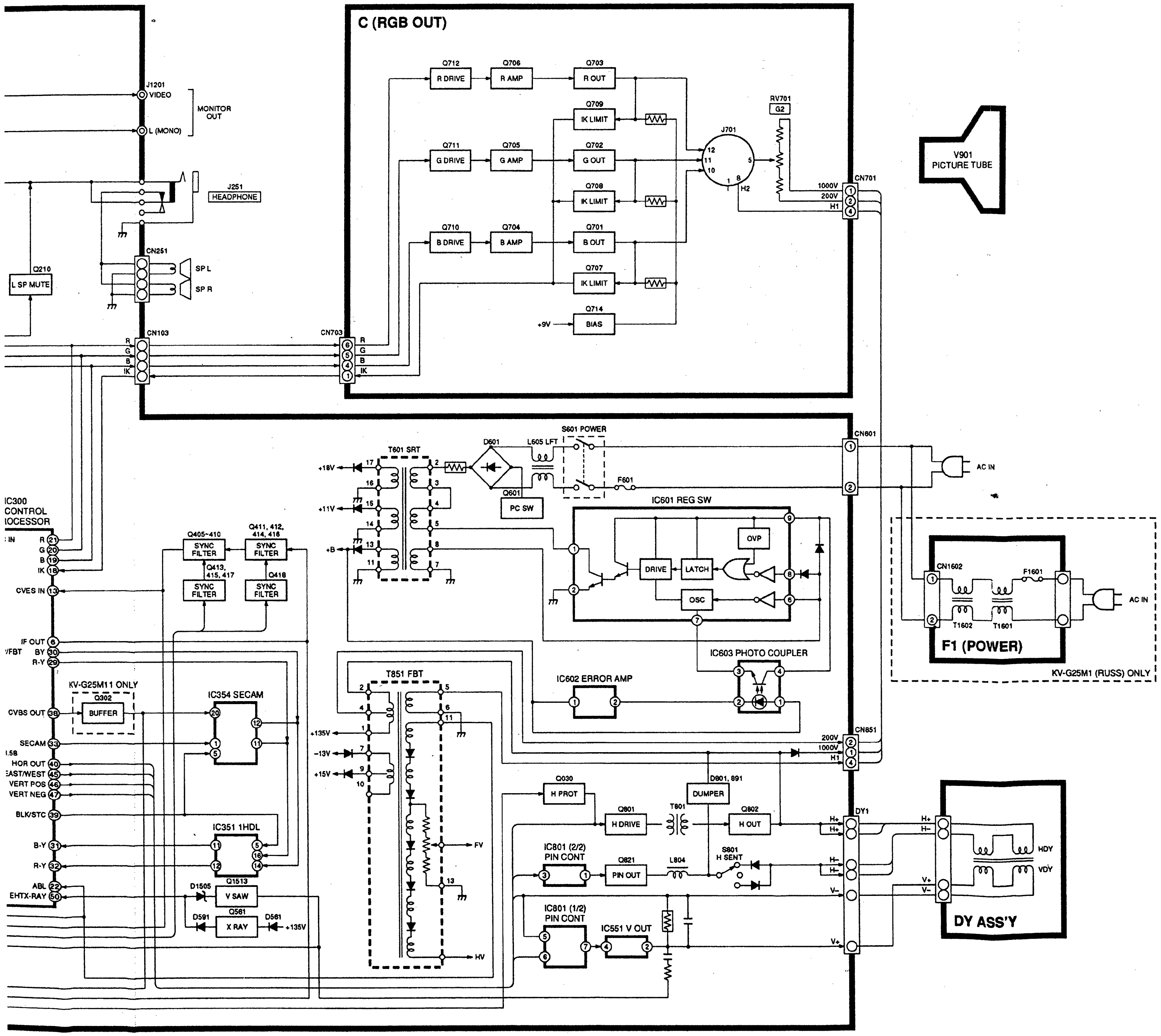
08 VSF (V SHIFT)



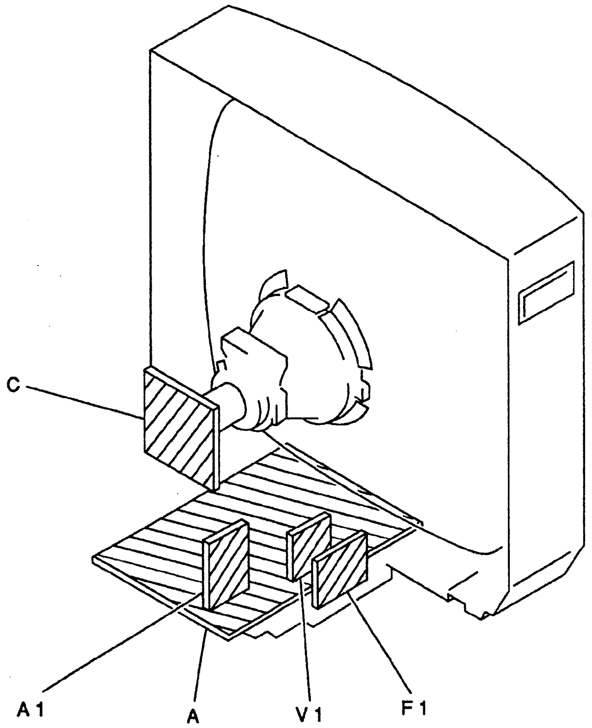
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAMS


A
SYS CONTROLLER, TU, MEMORY
IF, Y/C JUNGLE, H/V OUT
POWER SUPPLY, SECAM DECODER
AUDIO/VIDEO INPUT
VIDEO IN 1 (FRONT)
J1202
VIDEO
R (MONO)
VIDEO IN 2 (REAR)
J1201
VIDEO
L (MONO)
Q1201, 1202
Q1207, 1208
BUFFER
Q1204
BUFFER
J1201
VIDEO
L (MONO)
MONITOR OUT
IC203
AUDIO OUT
L IN
L OUT
Q1265
L MUTE
Q210
L SP MUTE
CN251
SP L
SP R
CN103
CN104 (2/2)
EXTA (MONO)
JR104
JW164
TU101
AGC
TU
U/V
L/H
IF
Q402
IF BUFFER
SWF401
Q403, 404
FILTER
IC001 μ-COM
MUTE
Q202
MUTE
+7V
Q303
G BUFFER
IC003 MEMORY
Q109
VC AMP
Q110
VC FILTER
Q108
BUFFER
KEY1
KEY2
HSYNC
TV SYNC
RESET
EXTAL
XTAL
TIMER
RESP/NICAM
IIICLK0
IIDATO
STBY
BLK
BRT ABL
VPULSE
VSYNC
HDSW
IC002 +5V REG
Q031
BUFFER
IC004 IR DET
SIRCS
IC401 SYS-SEL
TSW0
TSW1
B/G
M
D/K
I
S901 PROG+ AUTO PROGR
S902 PROG- MANUAL PROGR
S903 VOL+ TV SYS
S904 VOL- SELECT
S905 TV/VIDEO COL SYS
D901 TIMER
Q902 LED DRIVE
Q903 LED DRIVE
NICAM ST/BY
X101
IC300
BUS CONTROL
TV PROCESSOR
CVBS IN
IF IN
AGC
CVES IN
IF OUT
SSCP/FBT
X358 3.58MHz
X443 4.43MHz
CVBS OUT
SECAM
HOR OUT
EAST/WEST
VERT POS
VERT NEG
BLK/STC
B-Y
R-Y
ABL
EHTX-RAY
SCL
SDA
KV-G25M11 ONLY
Q302
BUFFER
Q405-410
SYNC FILTER
Q413, 415
SYNC FILTER
IC354
D1505
D591
CN1201
A1 (SIF)
Q1204
SIF AMP
Q1203
AMP
Q1201
AMP
Q1202
BUFFER
IC1204
AUDIO SW
IC1203 AUDIO OUT
DIC VOL ATT
PRE AMP
IC1202
NICAM DEMODULATOR
AF1
CF1203 5.5MHz
CF1202 6.5MHz
CF1201 4.5MHz
CF1204 6.0MHz
SW1
SW2
EXT AUDIO
IC1205
NICAM DECODER
DAC1
DAC3
DAC2
IC1201
+5V REG
+9V
KV-G25M11 ONLY
V1 (TELE TEXT)
IC01
MICRO PROCESSOR
IC02
TEXT-DECODER
Q01
RESET
X01
OSC IN
OSC OUT
CLK OUT
Q06 R OUT
Q04 G OUT
Q03 B OUT
Q05 BUFF
Q08 BLK OUT
Q07 +5V REG
Q02, 09 STAND-BY
CN01
CN104 (2/2)
CN106
SIF
SDA
SCL
STBY
BLK
VIDEO


C (RGB OUT)
Q712
R DRIVE
Q706
R AMP
Q703
R OUT
Q709
IK LIMIT
Q711
G DRIVE
Q705
G AMP
Q702
G OUT
Q708
IK LIMIT
Q710
B DRIVE
Q704
B AMP
Q701
B OUT
Q707
IK LIMIT
Q714
BIAS
+9V
J701
RV701
G2
H2
1000V
200V
H1
CN701
V901
PICTURE TUBE
J1201
VIDEO
L (MONO)
MONITOR OUT
J251
HEADPHONE
CN251
SP L
SP R
Q210
L SP MUTE
CN103
CN703
R
G
B
IK
IC300
CONTROL
PROCESSOR
CVES IN
IF OUT
BY
R-Y
CVBS OUT
SECAM
HOR OUT
EAST/WEST
VERT POS
VERT NEG
BLK/STC
B-Y
R-Y
ABL
EHTX-RAY
Q405-410
SYNC FILTER
Q411, 412, 414, 416
SYNC FILTER
Q413, 415, 417
SYNC FILTER
Q418
SYNC FILTER
KV-G25M11 ONLY
Q302
BUFFER
IC354 SECAM
IC351 1HDL
Q1513
V SAW
D1505
Q561
X RAY
D591
D561
+135V
S601 POWER
T601 SRT
D601
L605 LFT
F601
Q601
PC SW
+18V
+11V
+B
IC601 REG SW
OVP
DRIVE
LATCH
OSC
IC603 PHOTO COUPLER
IC602 ERROR AMP
CN601
AC IN
CN1602
F1601
T1602
T1601
F1 (POWER)
KV-G25M1 (RUSS) ONLY
T851 FBT
+135V
-13V
+15V
FV
HV
CN851
200V
1000V
H1
Q030
H PROT
D801, 891
DUMPER
Q801
H DRIVE
T801
Q802
H OUT
IC801 (2/2)
PIN CONT
Q821
PIN OUT
L804
S801
H SENT
IC801 (1/2)
PIN CONT
IC551 V OUT
DY1
H+
H-
V+
V-
HDY
VDY
DY ASS'Y

5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  kΩ = 100Ω, MΩ = 1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

  Pitch: 5 mm
  Rating electrical power 1/4W (CHIP: 1/10W)
- FW : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
  no mark : PAL
  ( ) : SECAM
  〈 〉 : NTSC 4.43
- Readings are taken with a 10 MΩ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- * : Can not be measured.
- Circled numbers are waveform reference.
- ━━━ : B + bus.
- ━ ━ ━ : B – bus.
- ➡ : signal path.

Reference Information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

PRINTED WIRING BOARD

A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE
H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

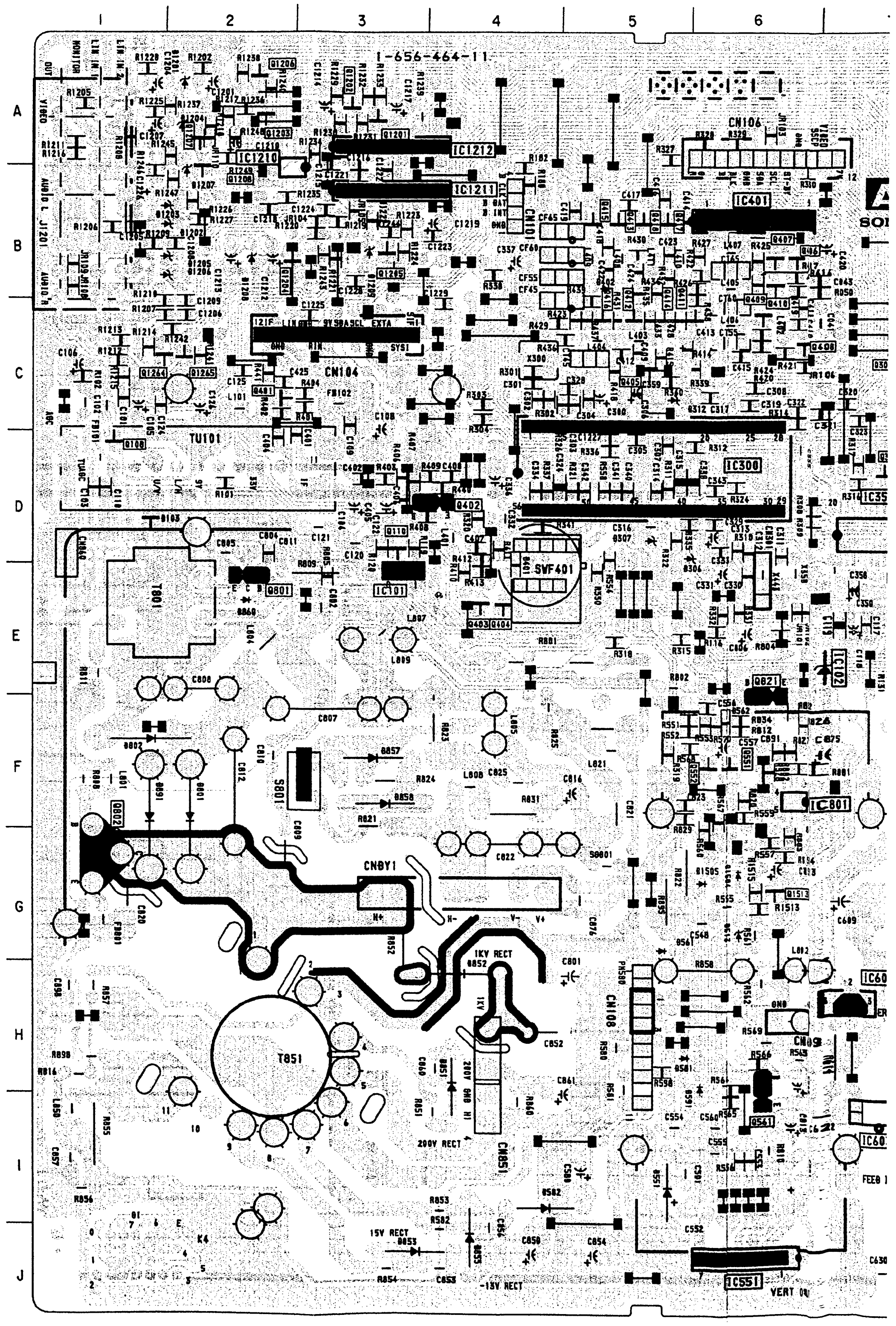
A BOARD

IC	
IC001	D-11
IC002	E-10
IC003	E-11
IC004	I-13
IC102	E-7
IC203	B-10
IC300	D-6
IC351	D-8
IC354	D-7
IC401	B-6
IC521	E-8
IC551	J-6
IC601	J-8
IC602	H-7
IC603	I-7
IC801	F-6
IC1210	A-2

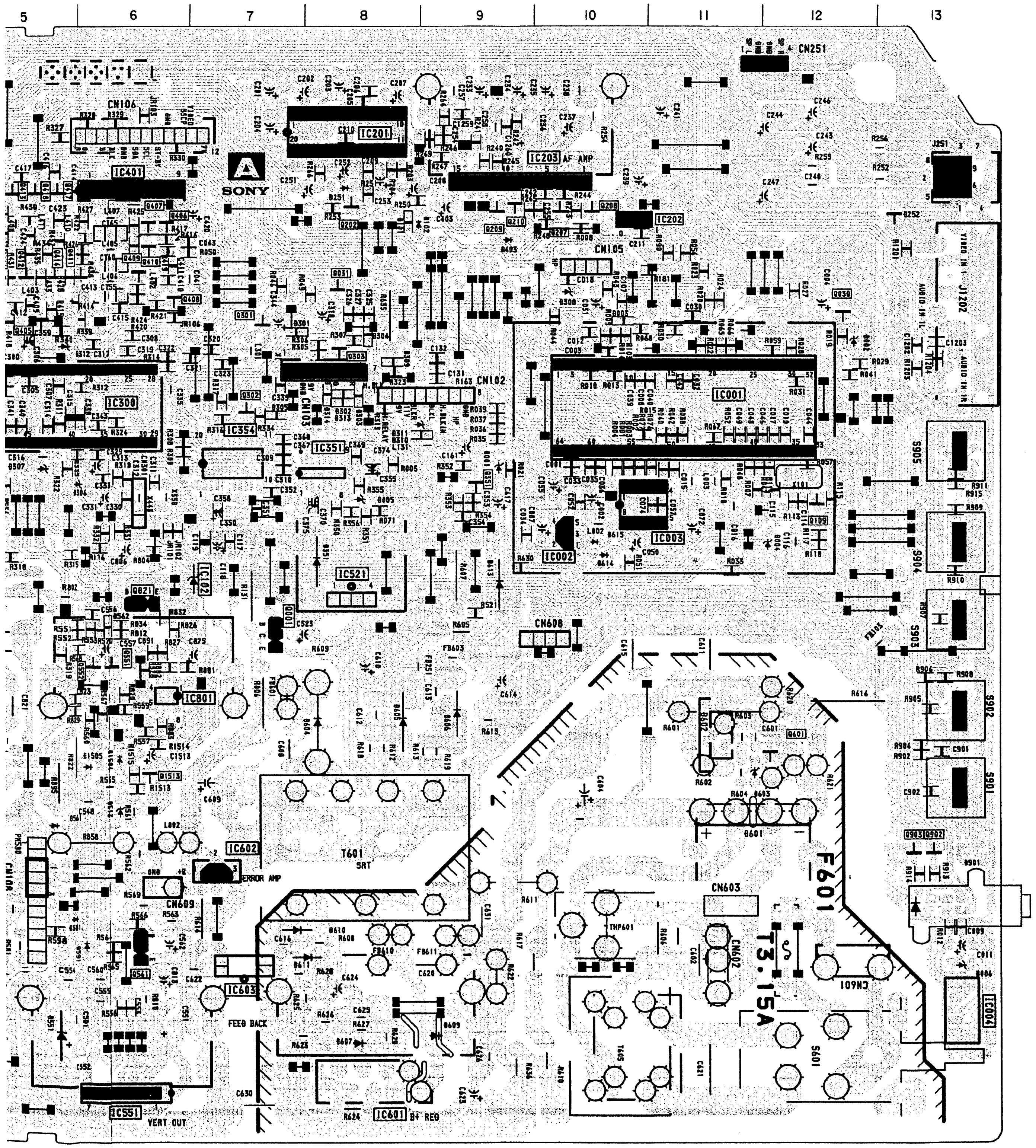
TRANSISTOR	
Q030	C-12
Q031	C-8
Q108	D-1
Q109	E-12
Q110	D-3
Q202	B-8
Q207	B-10
Q208	B-10
Q210	B-9
Q301	C-7
Q302	D-7
Q303	C-8
Q402	D-4
Q403	E-4
Q404	E-4
Q405	C-5
Q406	B-6
Q407	B-6
Q408	C-6
Q409	C-6
Q410	B-6
Q411	C-6
Q412	C-5
Q413	B-5
Q414	C-5
Q415	B-5
Q416	C-5
Q417	B-5
Q418	B-5
Q561	I-6
Q601	G-12
Q801	E-2
Q802	G-1
Q821	E-6
Q902	H-13
Q903	H-13
Q1201	A-3
Q1202	A-3
Q1203	A-2
Q1204	B-2
Q1207	A-2
Q1208	B-2
Q1265	C-2
Q1513	G-6

DIODE	
D001	D-9
D002	C-12
D003	C-10
D004	E-12
D005	E-8
D101	B-8
D102	B-9
D103	D-1
D251	B-8
D252	B-13
D301	C-7
D302	D-8
D303	D-8
D304	C-8
D305	D-7
D306	D-6
D307	D-5
D308	C-10
D310	D-8
D311	D-8
D312	C-5
D313	D-8
D314	D-8
D351	E-8
D401	D-4
D402	B-5
D403	B-9
D513	G-6
D551	I-5
D561	G-5
D591	H-6
D601	G-11
D602	G-11
D603	G-11
D604	G-8
D605	G-8
D606	F-9
D607	I-8
D609	I-9
D610	H-7
D611	I-8
D801	F-2
D802	F-1
D851	H-4
D852	H-4
D853	J-3
D855	J-4
D857	F-3
D858	F-3
D860	E-2
D891	F-1
D901	H-13
D1201	A-2
D1202	B-2
D1207	B-2
D1208	B-2
D1504	G-6
D1505	G-6

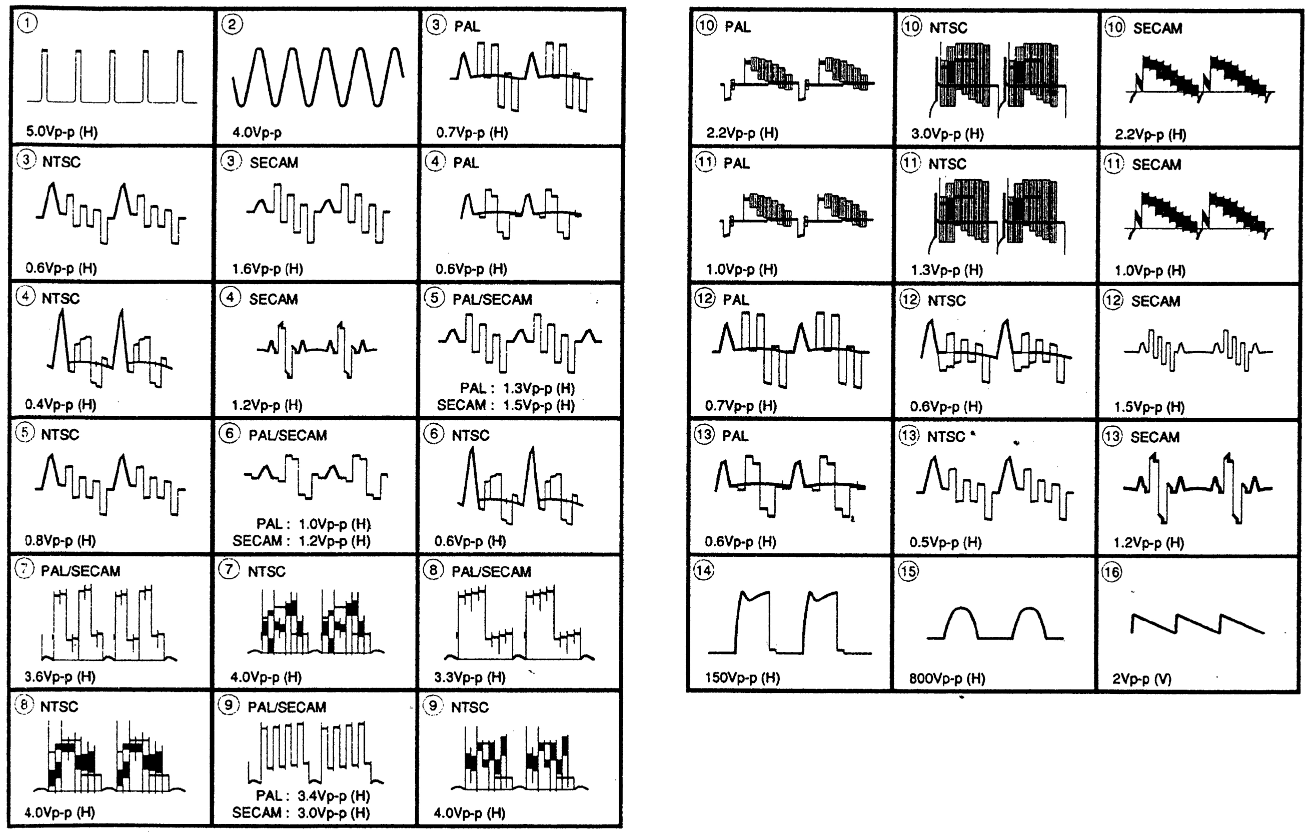
– A Board –



EO INPUT

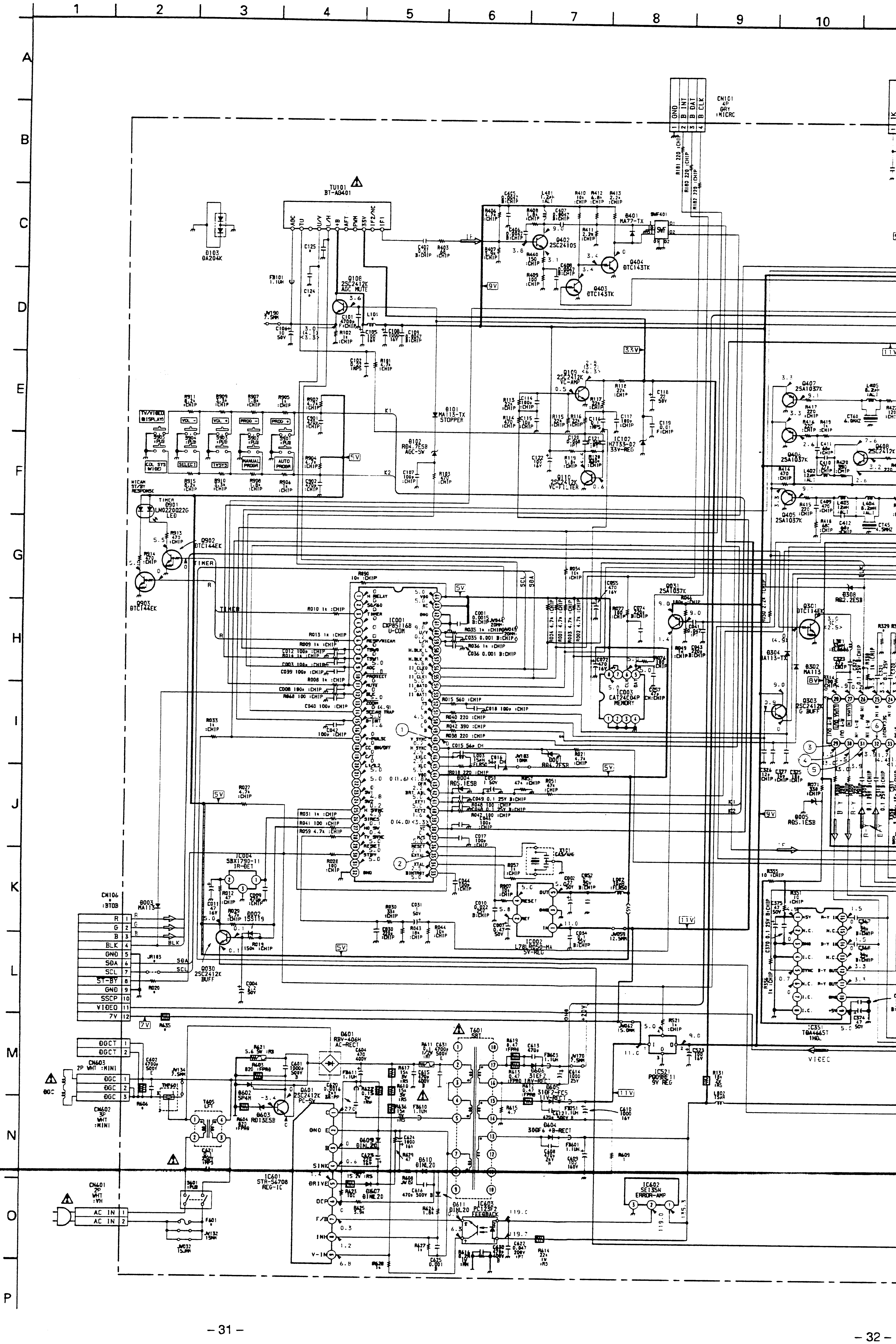

5
6
7
8
9
10
11
12
13
CN251
CN106
IC201
IC203 AF AMP
IC401
A
SONY
IC202
CN105
IC001
CN102
IC300
IC354
IC351
IC003
IC002
IC521
IC102
IC801
CN608
J1202
S905
S904
S903
S902
S901
T601
SRT
IC602
ERROR AMP
CN609
IC603
FEED BACK
CN603
CN602
F601
T3.15A
CN401
IC004
IC551
VERT OUT
IC601
B+ REG

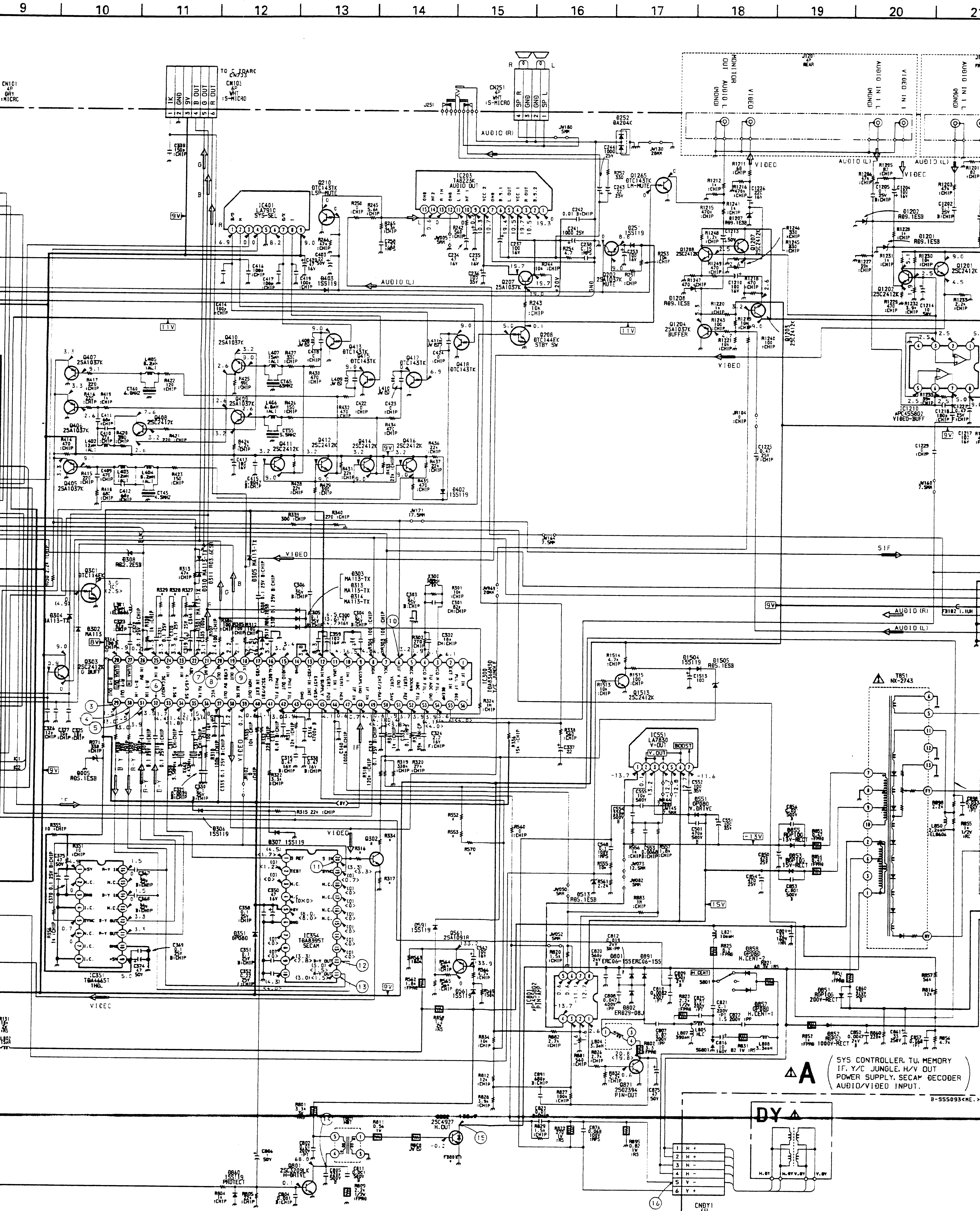
A BOARD WAVEFORMS

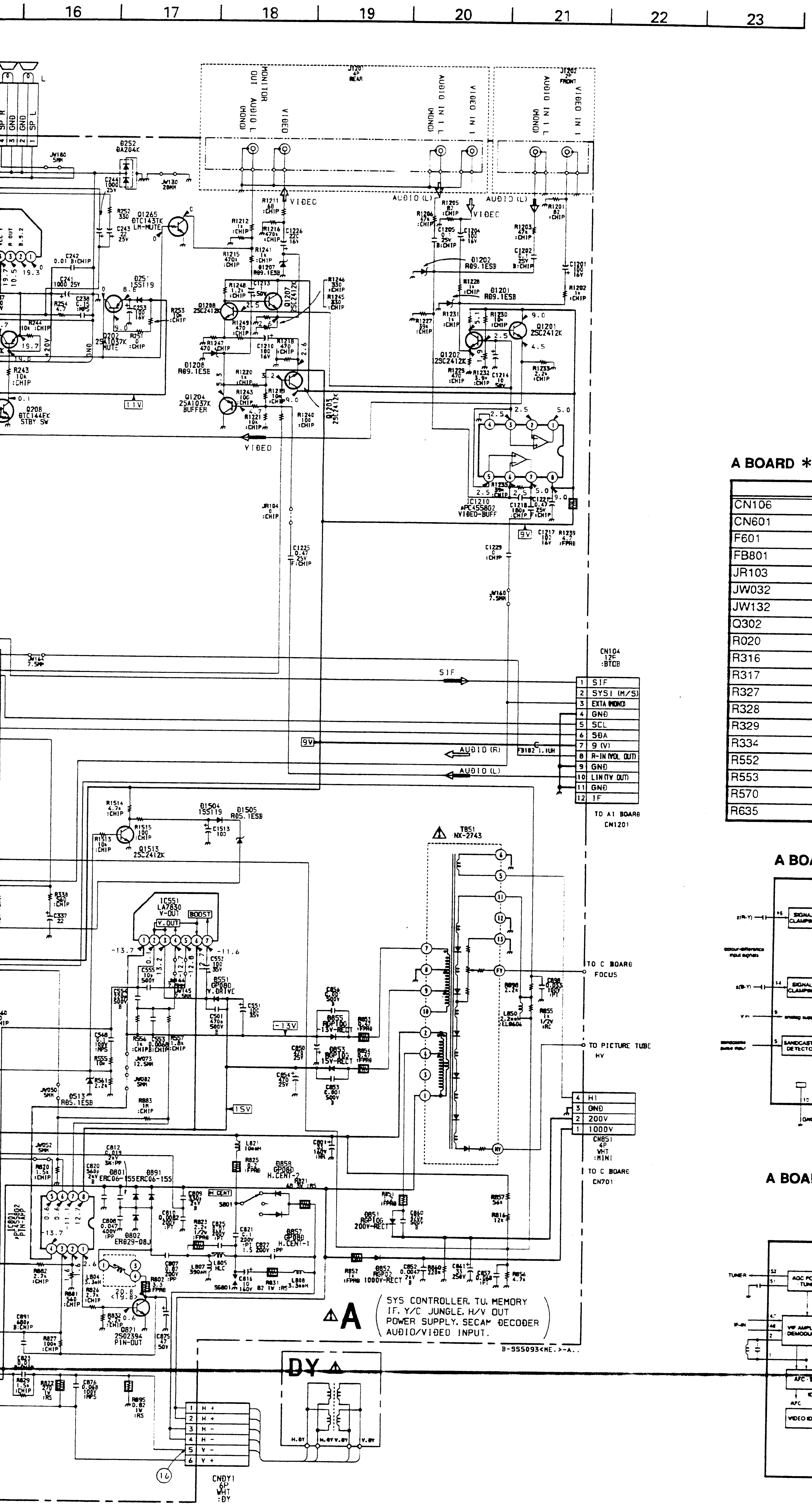


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(1) Schematic Diagram of A Board


TU101
BT-AG401
D103
DA204K
FB101
Q106
2SC2412K
AGC MUTE
Q402
2SC2410S
Q404
DTC143TK
Q403
DTC143TK
D401
MA77-TX
SWF401
CN101
4P
GRY
:MICRC
GND
B INT
B DAT
B CLK
Q109
2SC2412K
VC-AMP
Q110
2SC2412K
VC-FILTER
IC102
HZT33-02
33V-REG
D101
MA113-TX
STOPPER
D102
RD4.7ESB
AGC-SW
Q407
2SA1037K
Q406
2SA1037K
Q408
2SC2412K
Q405
2SA1037K
TV/VIDEO
DISPLAY
VOL -
VOL +
PROG -
PROG +
COL SYS
W1DD
SELECT
TVSYS
MANUAL PROGR
AUTO PROGR
NICAM
ST/BY
RESPONSE
TIMER
D901
LN0220022G
LED
Q902
DTC144EK
Q903
DTC144EK
TIMER
IC001
CXP85116B
U-COM
IC003
CAT24C04P
MEMORY
Q031
2SA1037K
Q301
DTC114EK
D308
RD2.2ESB
D304
MA113-TX
D302
MA113
Q303
2SC2412K
G BUFF
D005
RD5.1ESB
D001
RD4.7ESB
D004
RD5.1ESB
X001
4MHz
IC002
L78LR05D-MA
5V-REG
IC004
SBX1790-11
IR-DET
D002
1SS119
Q030
2SC2412K
BUFF
D003
MA113
CN106
:BTOB
R
G
B
BLK
GND
SDA
SCL
ST-BY
GND
SSCP
VIDEO
7V
SCL
SDA
DGCT
DGCT
CN603
2P WHT :MINI
DGC
DGC
DGC
CN602
3P
WHT
:MINI
DGC
THP601
T605
LFT
D601
RBV-406H
AC-RECT
D602
SP4M
Q601
2SC2412K
PC-5V
D603
RD13ESB
T601
SRT
IC601
STR-S6708
REG-IC
GND
SINK
DRIVE
OCP
F/B
INH
V-IN
D609
D1NL20
D607
D1NL20
D610
D1NL20
D611
D1NL20
IC603
PC123F2
FEEDBACK
D606
31EF2
D605
31EF2-FC5
D604
30DF6
+B-RECT
IC521
PQ09RE11
9V REG
IC602
SE135N
ERROR-AMP
CN601
2P
WHT
:VH
AC IN
AC IN
S601
F601
IC351
TDA4665T
IHD
VIDEO
5V
9V
11V
33V
12.5MH
15.0MH
119.0
19.7
6.3
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
1
2
3
4
5
6
7
8
9
10

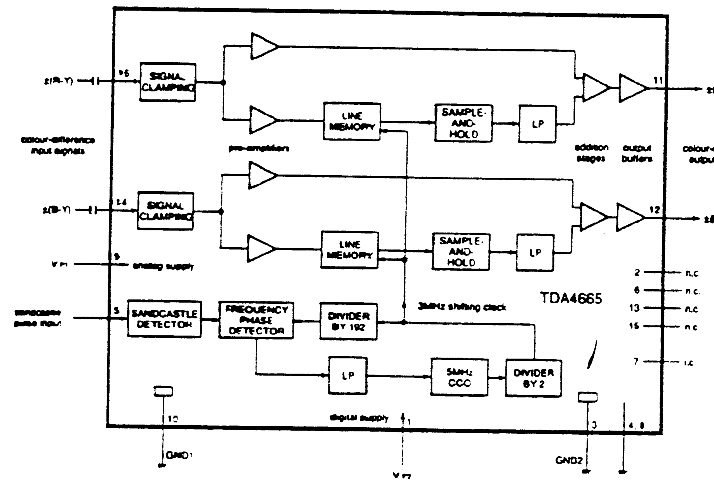

9
10
11
12
13
14
15
16
17
18
19
20
CN101 4P GRY :MICRO
TO S BOARD CN733
CN103 6P WHT :S-MICRO
J251
CN251 4P WHT :S-MICRO
SP R
GND
GND
SP L
AUDIO (R)
AUDIO (L)
D252 8A204K
J1201 4P REAR
MONITOR OUT AUDIO L (MONO)
VIDEO
AUDIO IN L (MONO)
VIDEO IN 1
IC401 LA7910 SYS-SEL
IC203 TA8223K AUDIO OUT
Q210 DTC143TK LSP-MUTE
Q1265 DTC143TK LM-MUTE
Q251 1SS119
Q202 2SA1037K MUTE
Q207 2SA1037K
Q208 DTC144EK STBY SW
Q1208 2SC2412K
Q1207 2SC2412K
Q1206 RD9.1ESB
Q1204 2SA1037K BUFFER
Q1203 2SC2412K
Q1202 RD9.1ESB
Q1201 2SC2412K
IC1210 uPC4558G2 VIDEO-BUFF
Q407 2SA1037K
Q406 2SA1037K
Q405 2SA1037K
Q408 2SC2412K
Q410 2SA1037K
Q409 2SA1037K
Q411 2SC2412K
Q412 2SC2412K
Q413 DTC143TK
Q414 2SC2412K
Q416 2SC2412K
Q417 DTC143TK
Q418 DTC143TK
D402 1SS119
D403 1SS119
11V
9V
VIDEO
S1F
IC300 TDA8366N50 Y/C JUNGLE
Q301 DTC114EK
D304 MA113-TX
D302 MA113
Q303 2SC2412K G BUFF
D305 MA113-TX
D303 MA113-TX
D313 MA113-TX
D314 MA113-TX
D305 RD5.1ESB
D306 1SS119
D307 1SS119
X300
IC351 TDA4665T 1HD.
IC354 TDA8395T SECAM
Q302
Q1513 2SC2412K
D1504 1SS119
D1505 RD5.1ESB
TB51 NX-2743
IC551 LA7830 V-OUT
V.OUT
BOOST
D551 GP08D V.DRIVE
D553 RGP10G 13V-RECT
D554 RGP10G 15V-RECT
-13V
15V
D591 1SS119
Q561 2SA1091R
D561 1SS119
IC801 PIN-AMP2
D801 ERC06-15S
D891 ERC06-15S
D802 ER829-08J
D859 GP08D H.CENT-2
D857 GP08D H.CENT-1
D851 RGP10G 200V-RECT
D852 RGP02 1000V-RECT
Q871 2SD2394 PIN-OUT
2SC4927 H.OUT
Q801 2SC3209LK H-DRIVE
D840 1SS119 PROTECT
CNDY1 6P WHT :DY
H+
H+
H-
H-
V-
V+
DY
H.DY
V.DY
⚠A
SYS CONTROLLER, TU, MEMORY
IF, Y/C JUNGLE, H/V OUT
POWER SUPPLY, SECAM DECODER
AUDIO/VIDEO INPUT.
B-SS5093<ME.>


16
17
18
19
20
21
22
23
J1201 4P REAR
MONITOR OUT AUDIO L (MONO)
VIDEO
AUDIO IN L (MONO)
VIDEO IN 1
J1202 2P FRONT
AUDIO IN L (MONO)
VIDEO IN 1
AUDIO (L)
VIDEO
Q1265 DTC143TK LM-MUTE
Q1207 2SC2412K
Q1208 2SC2412K
Q1204 2SA1037K BUFFER
Q1201 2SC2412K
Q1202 2SC2412K
Q1203 2SC2412K
IC1210 μPC4558G2 VIDEO-BUFF
Q208 DTC144EK STBY SW
Q202 2SA1037K MUTE
CN104 12P :BTCB
1 SIF
2 SYS1 (M/S)
3 EXTA MONO
4 GND
5 SCL
6 SDA
7 9 (V)
8 R-IN (VOL OUT)
9 GND
10 LIN (TV OUT)
11 GND
12 IF
TO A1 BOARD CN1201
SIF
AUDIO (R)
AUDIO (L)
T851 NX-2743
IC551 LA7830 V-OUT
BOOST
TO C BOARD FOCUS
TO PICTURE TUBE HV
4 H1
3 GND
2 200V
1 1000V
CN851 4P WHT :MINI
TO C BOARD CN701
IC801 μPC1378H PIN-AMP
Q821 2SD2394 PIN-OUT
SYS CONTROLLER, TU, MEMORY
IF, Y/C JUNGLE, H/V OUT
POWER SUPPLY, SECAM DECODER
AUDIO/VIDEO INPUT.
A
B-SS5093<ME, >-A..
DY
1 H +
2 H +
3 H -
4 H -
5 Y -
6 Y +
CNDY1 6P WHT :DY

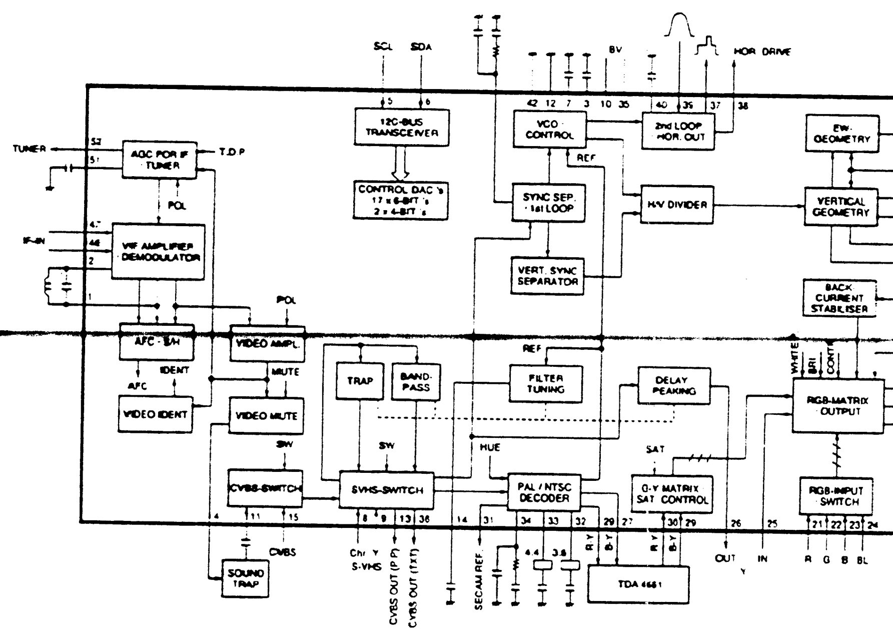
A BOARD ＊ MARK LIST

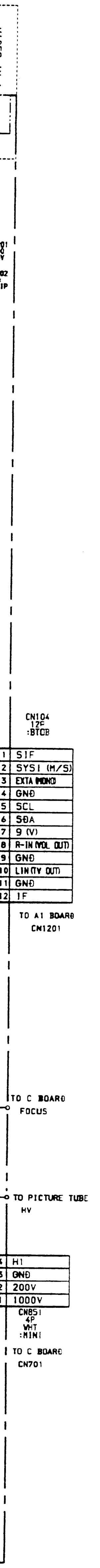
	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(
CN106	NOT USED	NOT USED	NOT US
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD
F601	T3.15A	T3.15A	NOT US
FB801	1.1uH	1.1uH	1.9uH
JR103	NOT USED	NOT USED	NOT US
JW032	NOT USED	NOT USED	15MM
JW132	NOT USED	NOT USED	15MM
Q302	NOT USED	NOT USED	NOT USE
R020	NOT USED	NOT USED	NOT USE
R316	NOT USED	NOT USED	NOT USE
R317	NOT USED	NOT USED	NOT USE
R327	0 : CHIP	0 : CHIP	0 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP
R334	NOT USED	NOT USED	NOT USE
R552	NOT USED	NOT USED	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP
R635	NOT USED	NOT USED	NOT USE

A BOARD IC351 TDA4665T


±(R-Y)
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
±(R-Y)
colour-difference input signals
pre-amplifiers
addition stages
output buffers
colour-difference output signals
±(B-Y)
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
±(B-Y)
analog supply
sandcastle pulse input
SANDCASTLE DETECTOR
FREQUENCY PHASE DETECTOR
DIVIDER BY 192
3MHz shifting clock
TDA4665
LP
5MHz CCO
DIVIDER BY 2
digital supply
GND1
GND2
n.c.

A BOARD IC300 TDA8366N3D

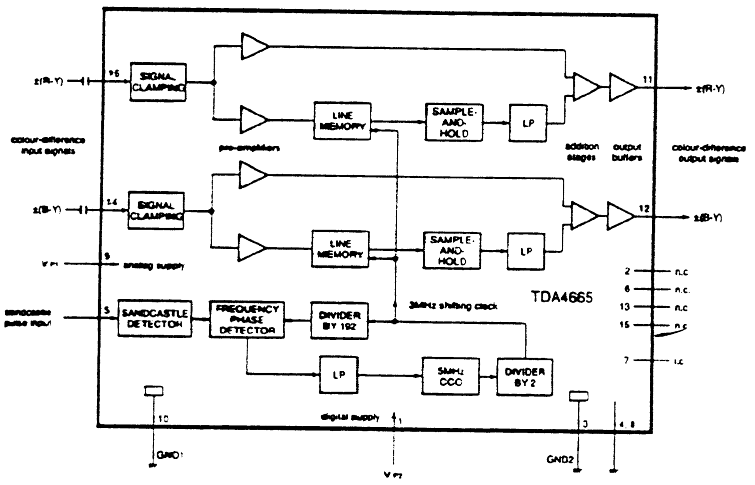

SCL
SDA
HOR DRIVE
TUNER
AGC FOR IF TUNER
T.D.P
I2C-BUS TRANSCEIVER
VCO CONTROL
2nd LOOP HOR OUT
EW-GEOMETRY
CONTROL DAC's
SYNC SEP. 1st LOOP
H/V DIVIDER
VERTICAL GEOMETRY
IF-IN
VIF AMPLIFIER DEMODULATOR
VERT. SYNC SEPARATOR
BACK CURRENT STABILISER
AFC-SW
VIDEO AMPL.
VIDEO IDENT
VIDEO MUTE
TRAP
BAND-PASS
FILTER TUNING
DELAY PEAKING
RGB-MATRIX OUTPUT
CVBS-SWITCH
SVHS-SWITCH
PAL/NTSC DECODER
O-Y MATRIX SAT CONTROL
RGB-INPUT SWITCH
SOUND TRAP
TDA 4661
CVBS
CVBS OUT (P-P)
CVBS OUT (TXT)
SECAM REF
OUT
IN
R G B BL


CN104
12P
:BTOB
1 SIF
2 SYSI (M/S)
3 EXTA MONO
4 GND
5 SCL
6 SDA
7 9 (V)
8 R-IN (VOL OUT)
9 GND
10 LIN (TV OUT)
11 GND
12 IF
TO A1 BOARD
CN1201
TO C BOARD
FOCUS
TO PICTURE TUBE
HV
H1
GND
200V
1000V
CN851
4P
WHT
:MINI
TO C BOARD
CN701

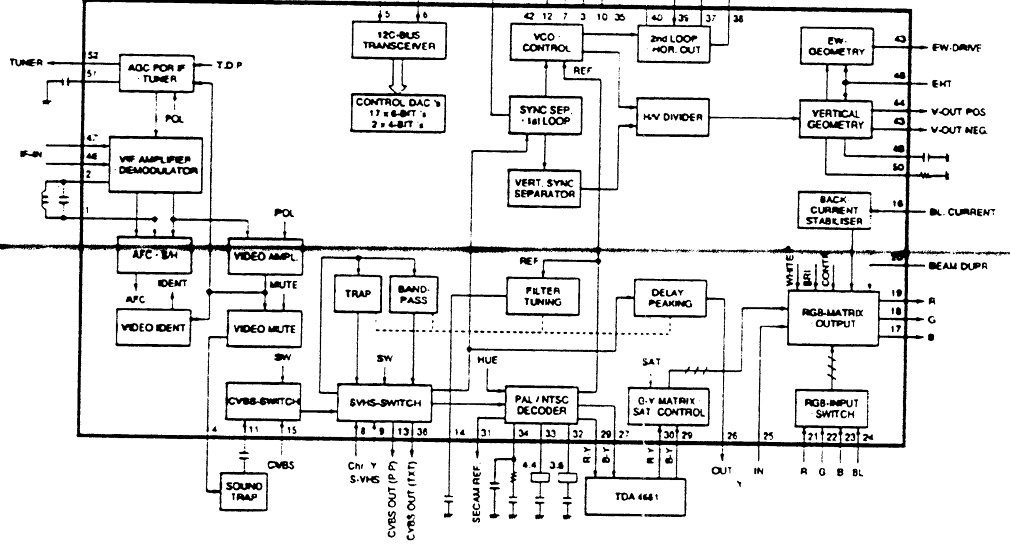
A BOARD ＊ MARK LIST

	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(RUSS)	KV-G25M11
CN106	NOT USED	NOT USED	NOT USED	12P : BTOB
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD CN1602	TO POWER CORD
F601	T3.15A	T3.15A	NOT USED	T3.15A
FB801	1.1uH	1.1uH	1.9uH	1.1uH
JR103	NOT USED	NOT USED	NOT USED	0 : CHIP
JW032	NOT USED	NOT USED	15MM	NOT USED
JW132	NOT USED	NOT USED	15MM	NOT USED
Q302	NOT USED	NOT USED	NOT USED	2SC2412K
R020	NOT USED	NOT USED	NOT USED	100 : CHIP
R316	NOT USED	NOT USED	NOT USED	4.7K : CHIP
R317	NOT USED	NOT USED	NOT USED	1K : CHIP
R327	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R334	NOT USED	NOT USED	NOT USED	470 : CHIP
R552	NOT USED	NOT USED	220K : CHIP	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R635	NOT USED	NOT USED	NOT USED	22 2W :RS

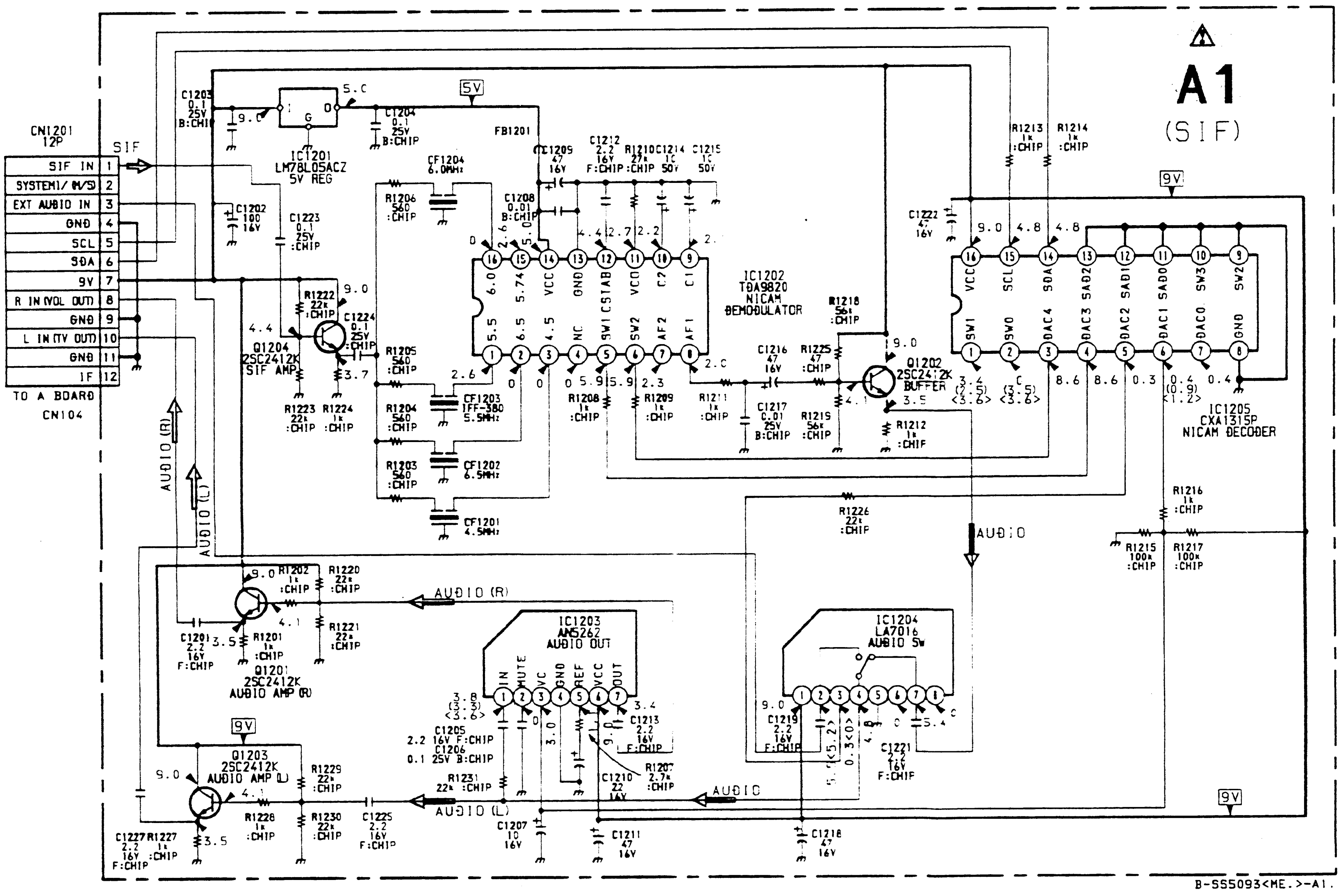
A BOARD IC351 TDA4665T

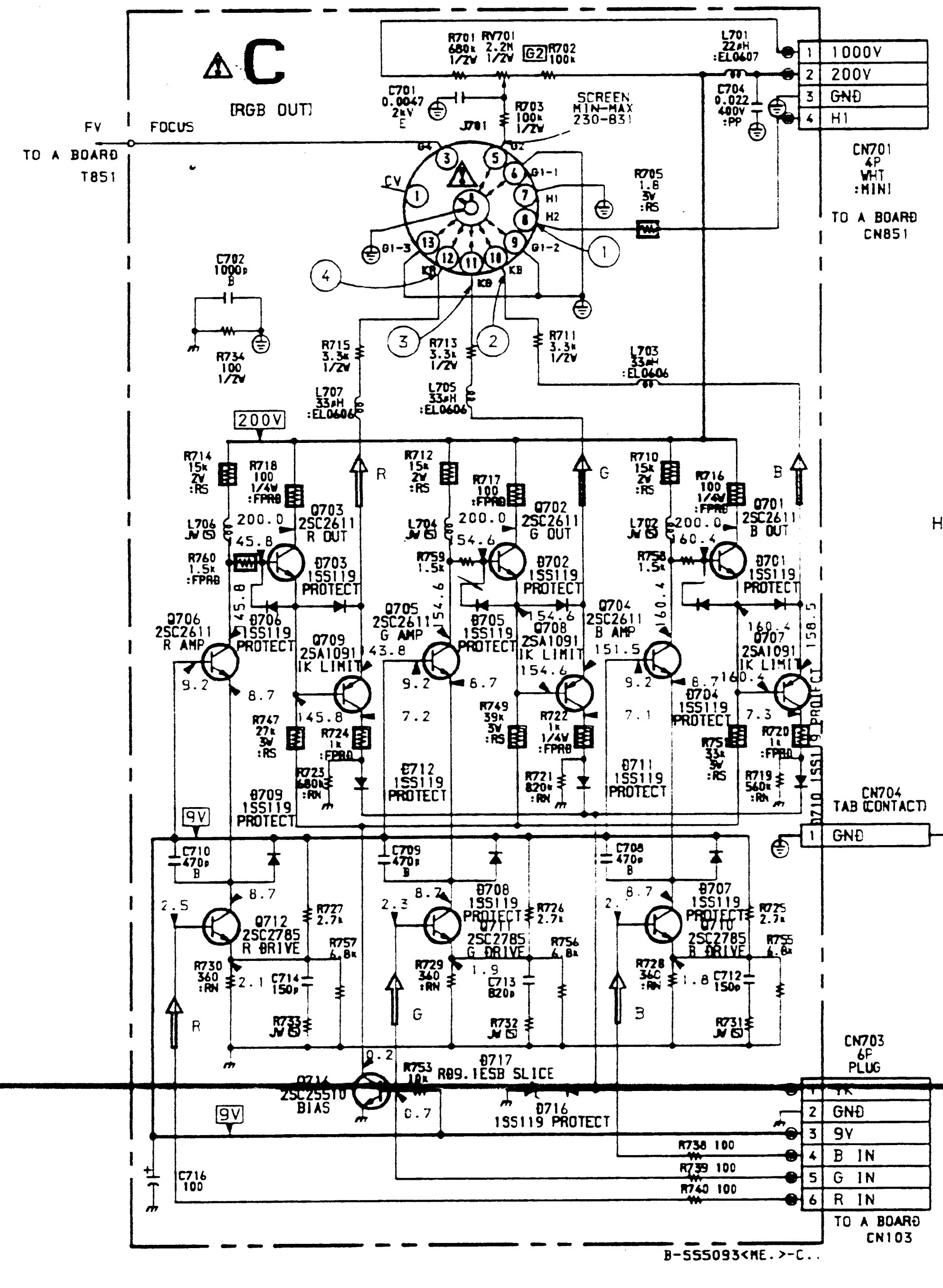

±(R-Y)
16
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
11
±(R-Y)
colour-difference input signals
pre-amplifiers
addition stages
output buffers
colour-difference output signals
±(B-Y)
14
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
12
±(B-Y)
9
analog supply
5
sandcastle pulse input
SANDCASTLE DETECTOR
FREQUENCY PHASE DETECTOR
DIVIDER BY 192
3MHz shifting clock
TDA4665
LP
3MHz CCO
DIVIDER BY 2
2 n.c
6 n.c.
13 n.c
15 n.c
7 i.c
10
digital supply
1
3
4, 8
GND1
GND2

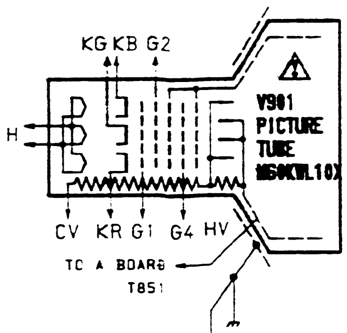
A BOARD IC300 TDA8366N3D


SCL
SDA
8V
HOR DRIVE
I2C-BUS TRANSCEIVER
CONTROL DAC's 17 x 6-BIT's 2 x 4-BIT's
VCO CONTROL
2nd LOOP HOR. OUT
REF
SYNC SEP. 1st LOOP
H/V DIVIDER
VERT. SYNC SEPARATOR
EW-GEOMETRY
VERTICAL GEOMETRY
EW-DRIVE
EHT
V-OUT POS
V-OUT NEG
BACK CURRENT STABILISER
BL. CURRENT
BEAM DUPR
TUNER
AGC FOR IF TUNER
T.D.P
POL
IF-IN
VIF AMPLIFIER DEMODULATOR
AFC - S/H
VIDEO AMPL.
IDENT
AFC
MUTE
VIDEO IDENT
VIDEO MUTE
SW
CVBS-SWITCH
SOUND TRAP
CVBS
TRAP
BAND-PASS
SVHS-SWITCH
Chr Y S-VHS
CVBS OUT (P.P)
CVBS OUT (TXT)
FILTER TUNING
HUE
PAL / NTSC DECODER
SECAM REF.
4.4
3.6
R-Y
B-Y
TDA 4661
DELAY PEAKING
SAT
Y MATRIX SAT CONTROL
OUT
IN
WHITE
BRI
CONT
RGB-MATRIX OUTPUT
R
G
B
RGB-INPUT SWITCH
R G B BL

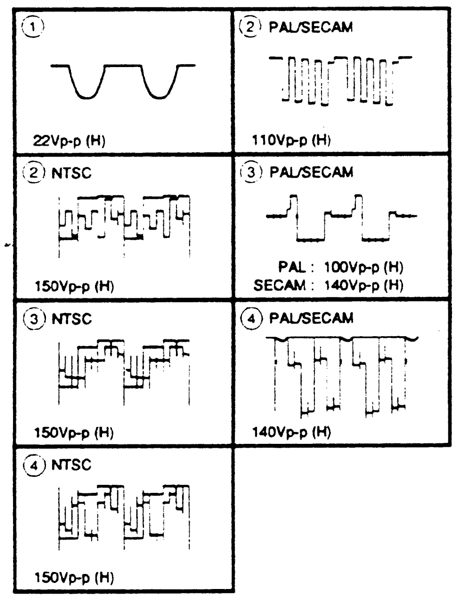
(2) Schematic Diagrams of A1, C, F1 and V1 Boards

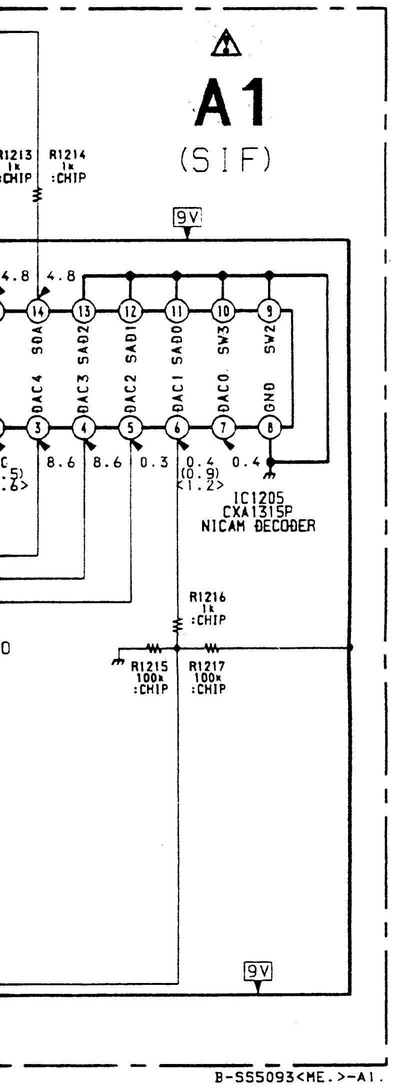

A1
(SIF)
CN1201 12P
SIF IN
SYSTEM1/ M/S
EXT AUDIO IN
GND
SCL
SDA
9V
R IN (VOL OUT)
GND
L IN (TV OUT)
GND
IF
TO A BOARD CN104
IC1201 LM78L05ACZ 5V REG
IC1202 TDA9820 NICAM DEMODULATOR
IC1205 CXA1315P NICAM DECODER
Q1204 2SC2412K SIF AMP
Q1202 2SC2412K BUFFER
Q1201 2SC2412K AUDIO AMP (R)
Q1203 2SC2412K AUDIO AMP (L)
IC1203 AN5262 AUDIO OUT
IC1204 LA7016 AUDIO SW
CF1201 4.5MHz
CF1202 6.5MHz
CF1203 IFF-380 5.5MHz
CF1204 6.0MHz
FB1201
AUDIO (R)
AUDIO (L)
AUDIO
5V
9V
B-SS5093<ME.>-A1.


C
(RGB OUT)
FV
FOCUS
TO A BOARD T851
SCREEN MIN-MAX 230-831
1000V
200V
GND
H1
CN701 4P WHT :MINI
TO A BOARD CN851
200V
Q703 2SC2611 R OUT
Q702 2SC2611 G OUT
Q701 2SC2611 B OUT
Q706 2SC2611 R AMP
Q705 2SC2611 G AMP
Q704 2SC2611 B AMP
Q709 2SA1091 IK LIMIT
Q708 2SA1091 IK LIMIT
Q707 2SA1091 IK LIMIT
Q712 2SC2785 R DRIVE
Q711 2SC2785 G DRIVE
Q710 2SC2785 B DRIVE
Q714 2SC2510 BIAS
D717 RD9.1ESB SLICE
D716 1SS119 PROTECT
CN704 TAB (CONTACT)
GND
CN703 6P PLUG
IK
GND
9V
B IN
G IN
R IN
TO A BOARD CN103
9V
B-SS5093<ME.>-C..

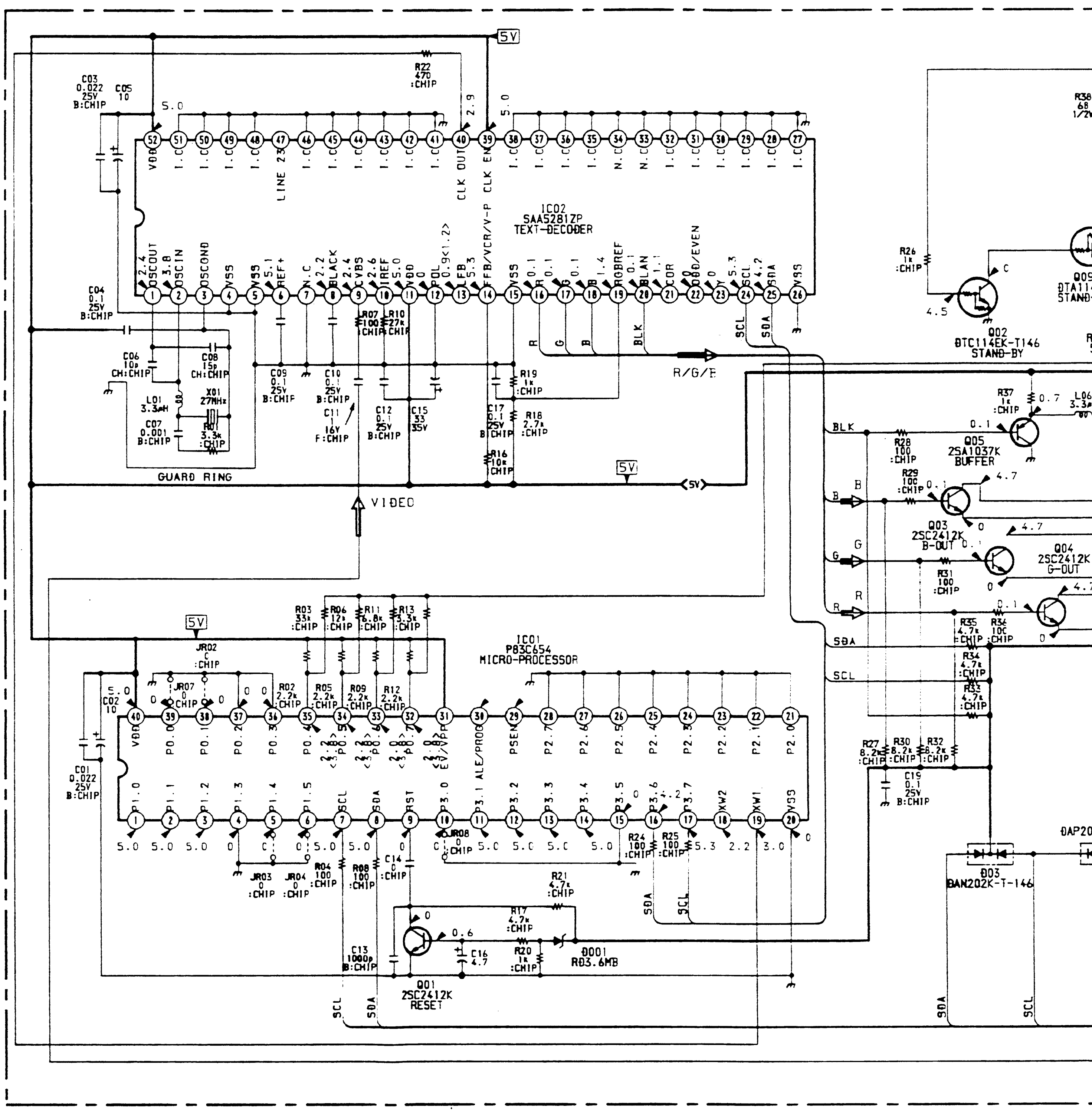

KG KB G2
H
V901 PICTURE TUBE
CV KR G1 G4 HV
TO A BOARD T851

C BOARD WAVEFORMS

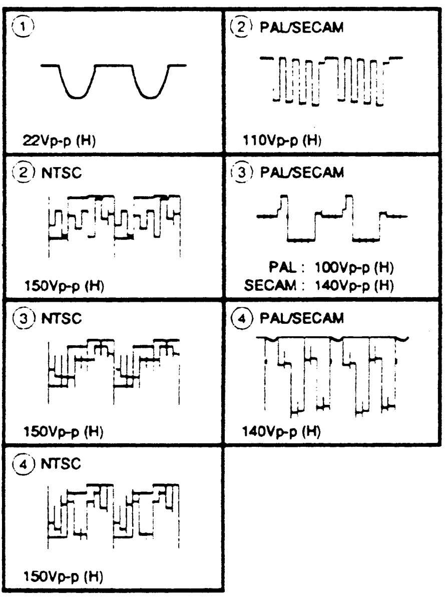



A1
(SIF)
IC1205
CXA1315P
NICAM DECODER
R1213
R1214
R1215
R1216
R1217
9V
B-SS5093<ME.>-A1.

(KV-G25M11 only)

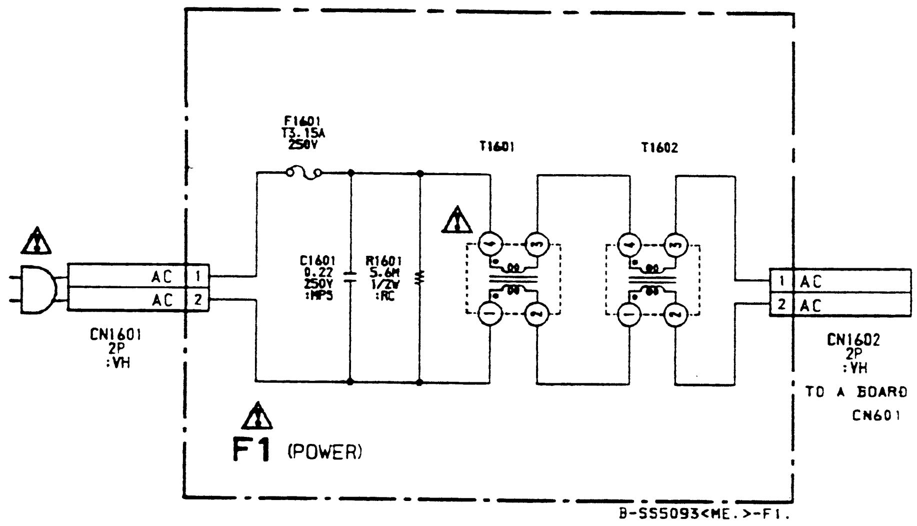

IC02
SAA5281ZP
TEXT-DECODER
IC01
P83C654
MICRO-PROCESSOR
Q01
2SC2412K
RESET
Q02
DTC114EK-T146
STAND-BY
Q03
2SC2412K
B-OUT
Q04
2SC2412K
G-OUT
Q05
2SA1037K
BUFFER
D03
DAN202K-T-146
D001
RD3.6MB
X01
27MHz
L01
3.3µH
GUARD RING
VIDEO
R/G/B
5V
BLK
SDA
SCL

C BOARD WAVEFORMS

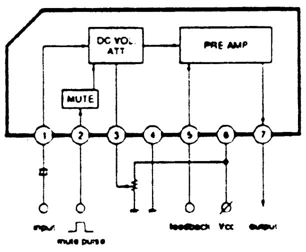


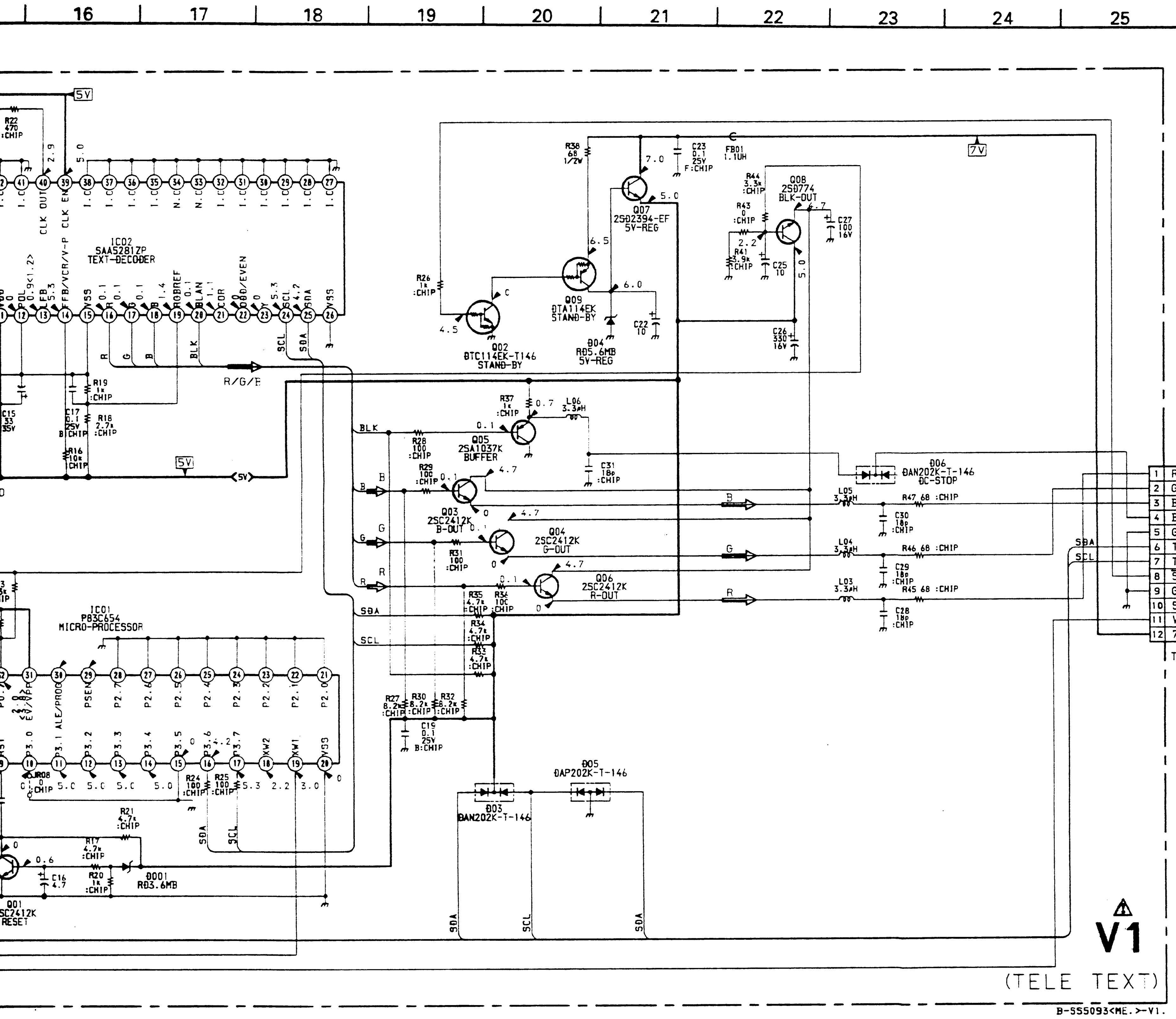
01
CTURE
BE
0KWL10X

(KV-G25M1 (RUSS) only)

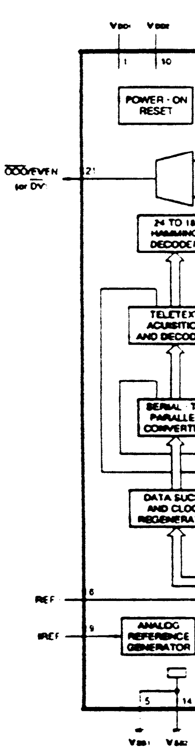

F1601
T3.15A
250V
T1601
T1602
C1601
0.22
250V
:MPS
R1601
5.6M
1/2W
:RC
AC 1
AC 2
CN1601
2P
:VH
CN1602
2P
:VH
TO A BOARD
CN601
F1 (POWER)
B-SS5093<ME.>-F1.

A1 BOARD IC1203 AN5262


DC VOL. ATT
PRE AMP
MUTE
input
mute pulse
feedback
Vcc
output


16
17
18
19
20
21
22
23
24
25
26
27
5V
R22 470 :CHIP
IC02 SAA5281ZP TEXT-DECODER
CLK OUT
CLK EN
R/G/B
R19 1k :CHIP
C15 33 35V
C17 0.1 25V B:CHIP
R18 2.7k :CHIP
R16 10k CHIP
5V
IC01 P83C654 MICRO-PROCESSOR
R38 68 1/2W
C23 0.1 25V F:CHIP
FB01 1.1UH
7V
Q07 2SD2394-EF 5V-REG
R44 3.3k :CHIP
Q08 2SD774 BLK-OUT
R43 0 :CHIP
R41 3.9k :CHIP
C25 10
C27 100 16V
R26 1k :CHIP
Q09 DTA114EK STAND-BY
C22 10
Q02 DTC114EK-T146 STAND-BY
D04 RD5.6MB 5V-REG
C26 330 16V
R37 1k :CHIP
L06 3.3µH
BLK
R28 100 :CHIP
Q05 2SA1037K BUFFER
C31 18p :CHIP
R29 100 :CHIP
Q03 2SC2412K B-OUT
Q04 2SC2412K G-OUT
R31 100 :CHIP
Q06 2SC2412K R-OUT
R35 4.7k :CHIP
R36 100 :CHIP
R34 4.7k :CHIP
R33 4.7k :CHIP
SDA
SCL
D06 DAN202K-T-146 DC-STOP
L05 3.3µH
R47 68 :CHIP
C30 18p :CHIP
L04 3.3µH
R46 68 :CHIP
C29 18p :CHIP
L03 3.3µH
R45 68 :CHIP
C28 18p :CHIP
CN01 12P :BTOB
1 R
2 G
3 B
4 BLK
5 GND
6 TEXT SDA
7 TEXT SCL
8 ST-BY
9 GND
10 SSCP
11 VIDEO
12 7V
TO A BOARD CN106
R27 8.2k :CHIP
R30 8.2k :CHIP
R32 8.2k :CHIP
C19 0.1 25V B:CHIP
D05 DAP202K-T-146
D03 DAN202K-T-146
R24 100 :CHIP
R25 100 :CHIP
R21 4.7k :CHIP
R17 4.7k :CHIP
C16 4.7
R20 1k :CHIP
D001 RD3.6MB
Q01 2SC2412K RESET
V1
(TELE TEXT)
B-SS5093<ME.>-V1.

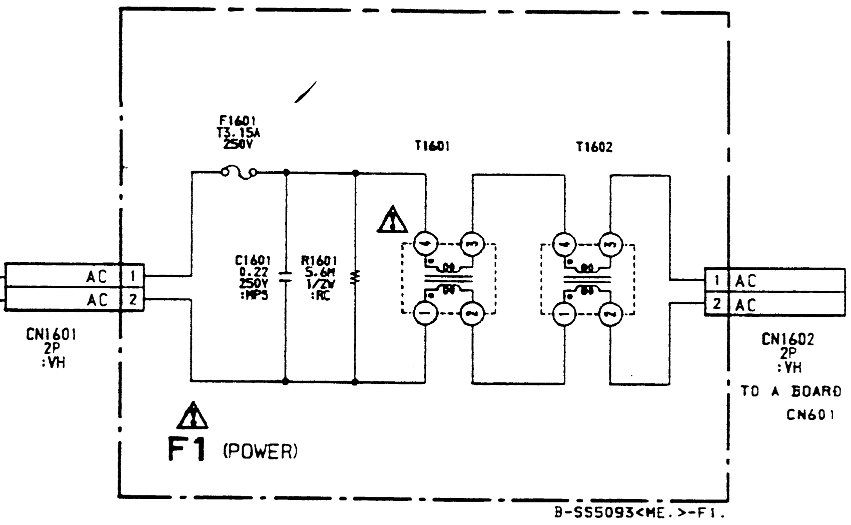
V1 BOAR

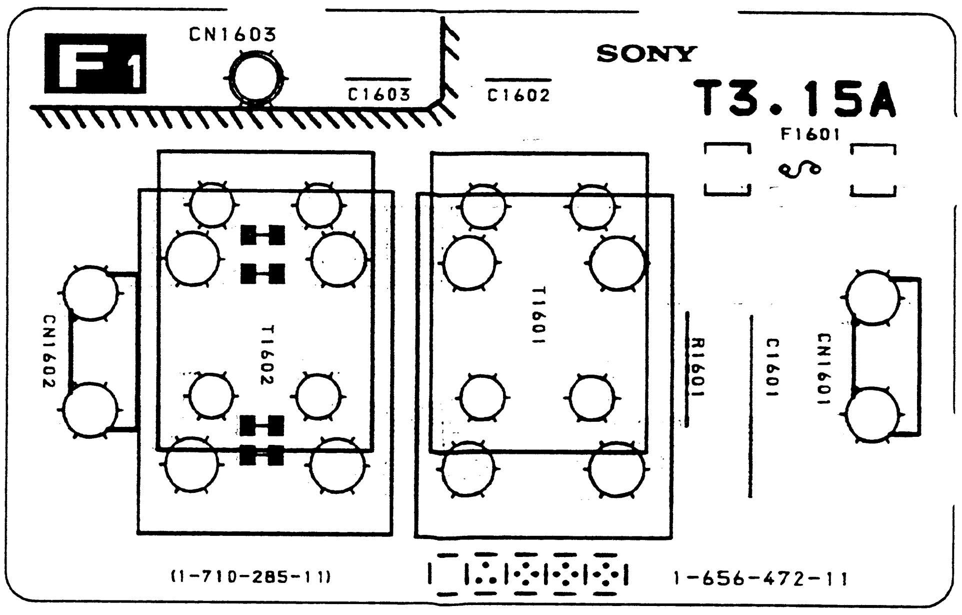

POWER-ON RESET
DATA SLIC AND CLOC REGENERA
ANALOG REFERENCE GENERATOR

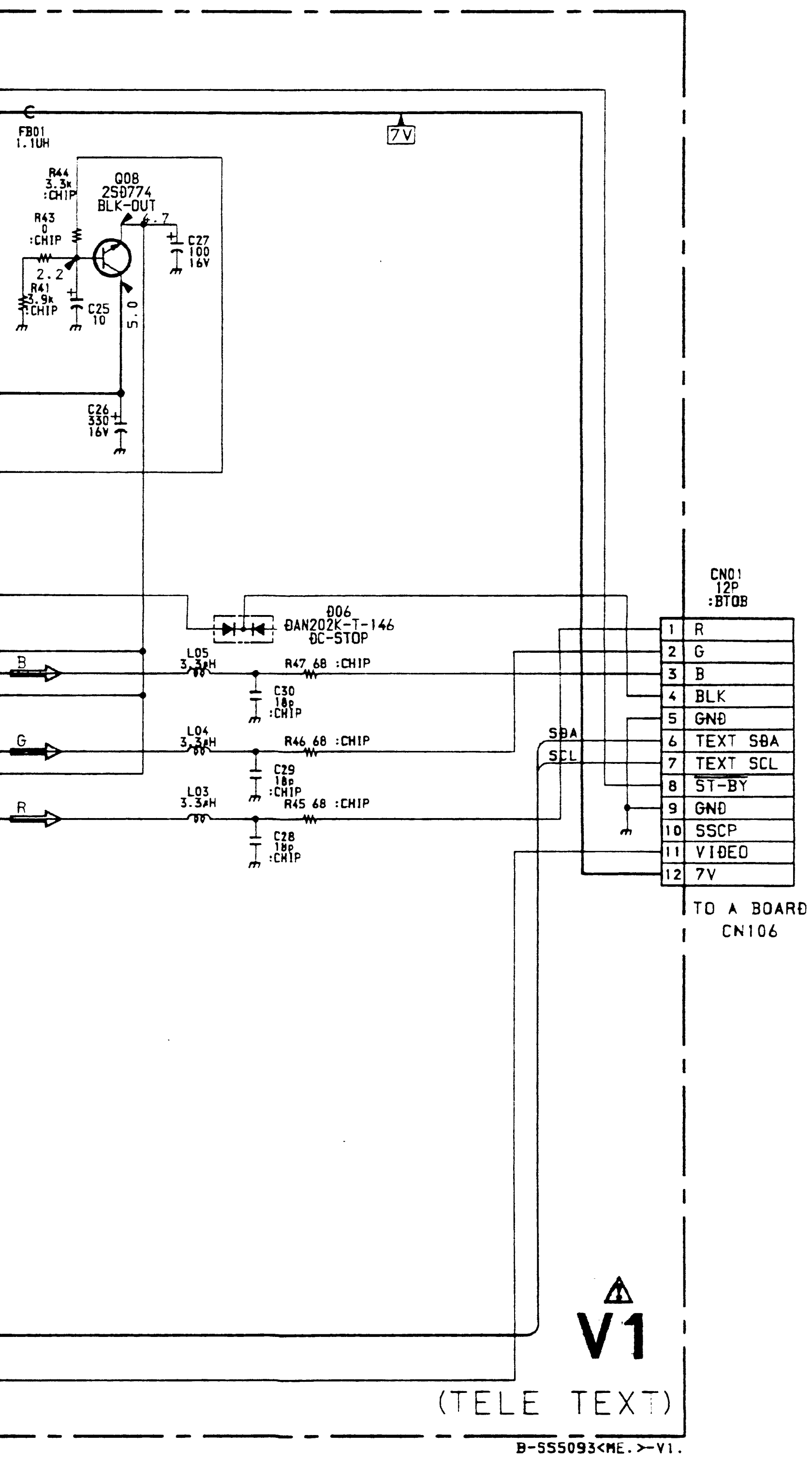
PRINTED WIRING BOARD F1 [POWER]

– F1 Board – (KV-G25M1 (RUSS) only)

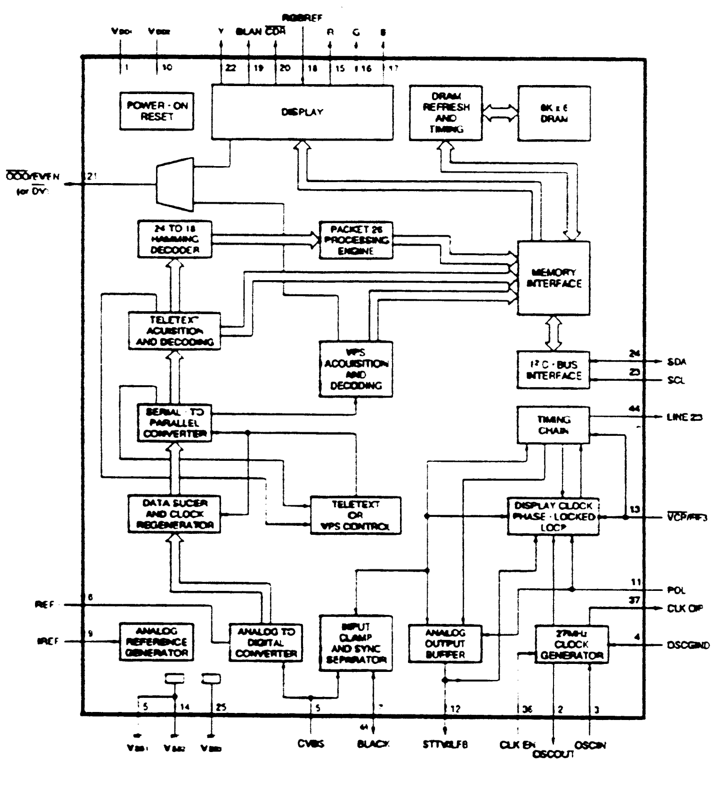
(KV-G25M1 (RUSS) only)


F1601 T3.15A 250V
T1601
T1602
C1601 0.22 250V :MPS
R1601 5.6M 1/2W :RC
AC 1
AC 2
CN1601 2P :VH
1 AC
2 AC
CN1602 2P :VH
TO A BOARD CN601
F1 (POWER)
B-SS5093<ME.>-F1.


F1
CN1603
C1603
C1602
SONY
T3.15A
F1601
CN1602
T1602
T1601
R1601
C1601
CN1601
(1-710-285-11)
1-656-472-11

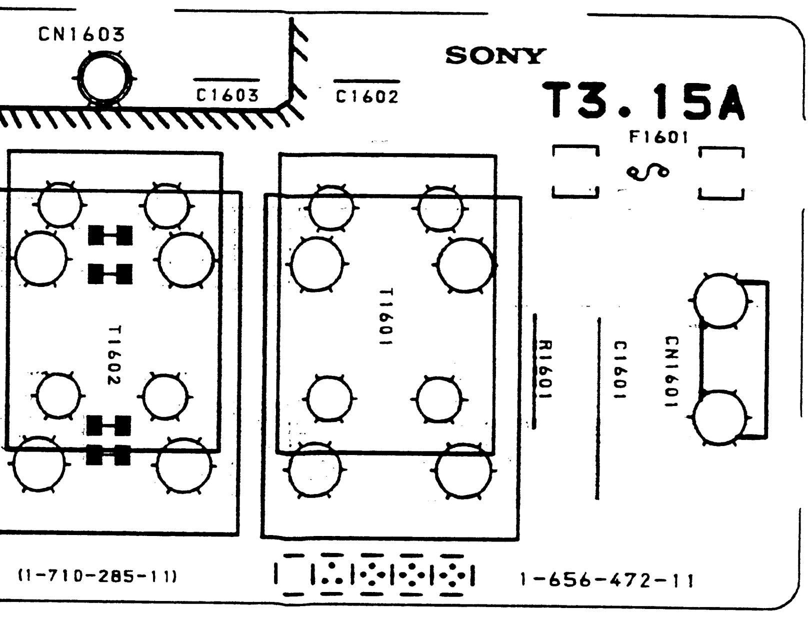

FB01
1.1UH
R44
3.3k
:CHIP
Q08
2SD774
BLK-OUT
4.7
R43
0
:CHIP
C27
100
16V
2.2
R41
3.9k
:CHIP
C25
10
5.0
C26
330
16V
7V
CN01
12P
:BTOB
D06
DAN202K-T-146
DC-STOP
L05
3.3µH
R47 68 :CHIP
C30
18p
:CHIP
L04
3.3µH
R46 68 :CHIP
C29
18p
:CHIP
R45 68 :CHIP
L03
3.3µH
C28
18p
:CHIP
B
G
R
SDA
SCL
1 R
2 G
3 B
4 BLK
5 GND
6 TEXT SDA
7 TEXT SCL
8 ST-BY
9 GND
10 SSCP
11 VIDEO
12 7V
TO A BOARD
CN106
V1
(TELE TEXT)
B-SS5093<ME.>-V1.

V1 BOARD IC02 SAA5281ZP


VDD1
VDD2
Y
BLAN
COR
RGBREF
R
G
B
POWER-ON RESET
DISPLAY
DRAM REFRESH AND TIMING
8K x 8 DRAM
ODD/EVEN (or DV)
24 TO 18 HAMMING DECODER
PACKET 26 PROCESSING ENGINE
MEMORY INTERFACE
TELETEXT ACQUISITION AND DECODING
VPS ACQUISITION AND DECODING
I²C-BUS INTERFACE
SDA
SCL
SERIAL TO PARALLEL CONVERTER
TIMING CHAIN
LINE 23
DATA SLICER AND CLOCK REGENERATOR
TELETEXT OR VPS CONTROL
DISPLAY CLOCK PHASE-LOCKED LOOP
VCR/FF3
POL
CLK O/P
REF
IREF
ANALOG REFERENCE GENERATOR
ANALOG TO DIGITAL CONVERTER
INPUT CLAMP AND SYNC SEPARATOR
ANALOG OUTPUT BUFFER
27MHz CLOCK GENERATOR
OSCGND
VSS1
VSS2
VSS3
CVBS
BLACK
STTV/LFB
CLK EN
OSCOUT
OSCIN

WIRING BOARD **F1** [POWER]

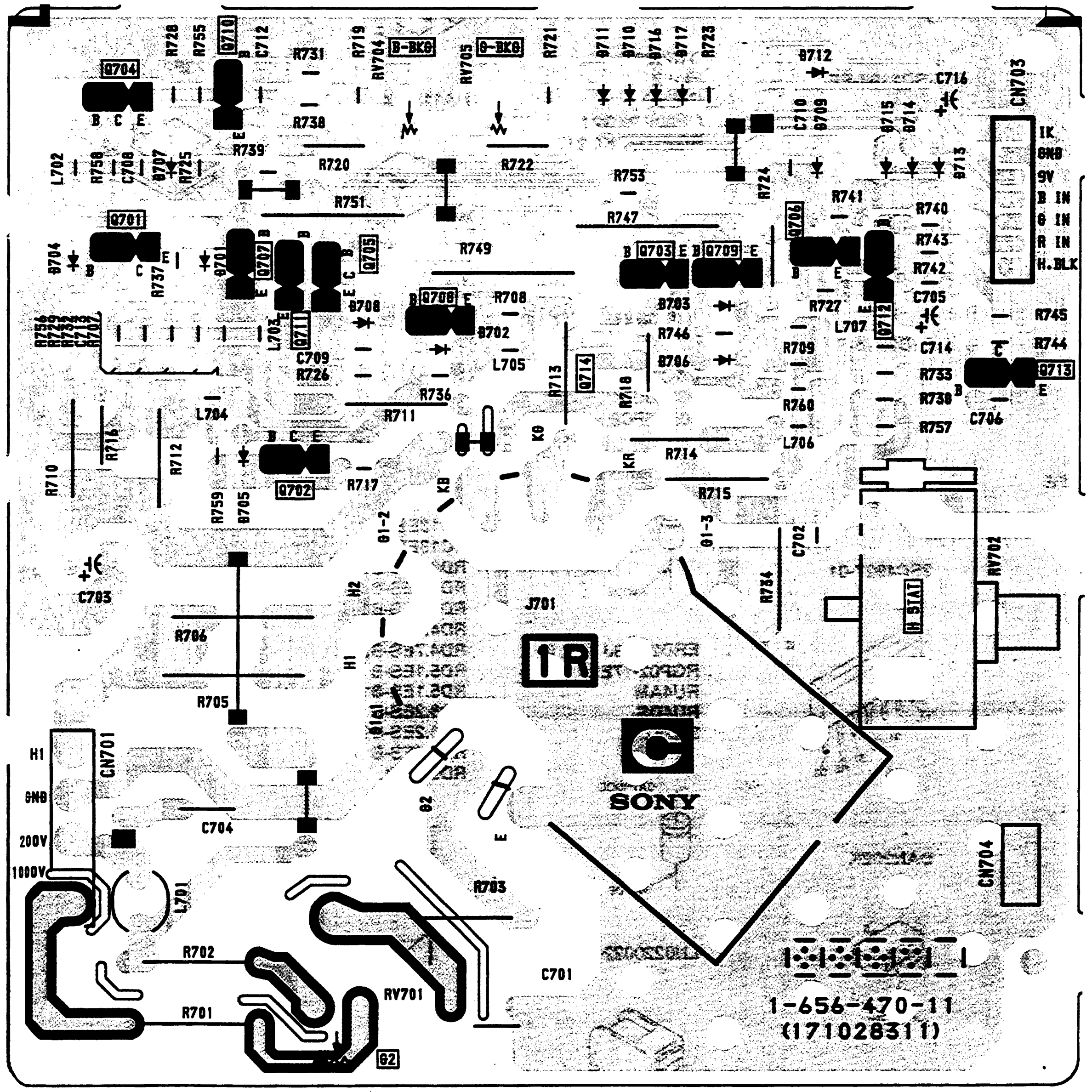
– (KV-G25M1 (RUSS) only)


CN1603
SONY
C1603
C1602
T3.15A
F1601
T1602
T1601
R1601
C1601
CN1601
(1-710-285-11)
1-656-472-11

PRINTED WIRING BOARDS

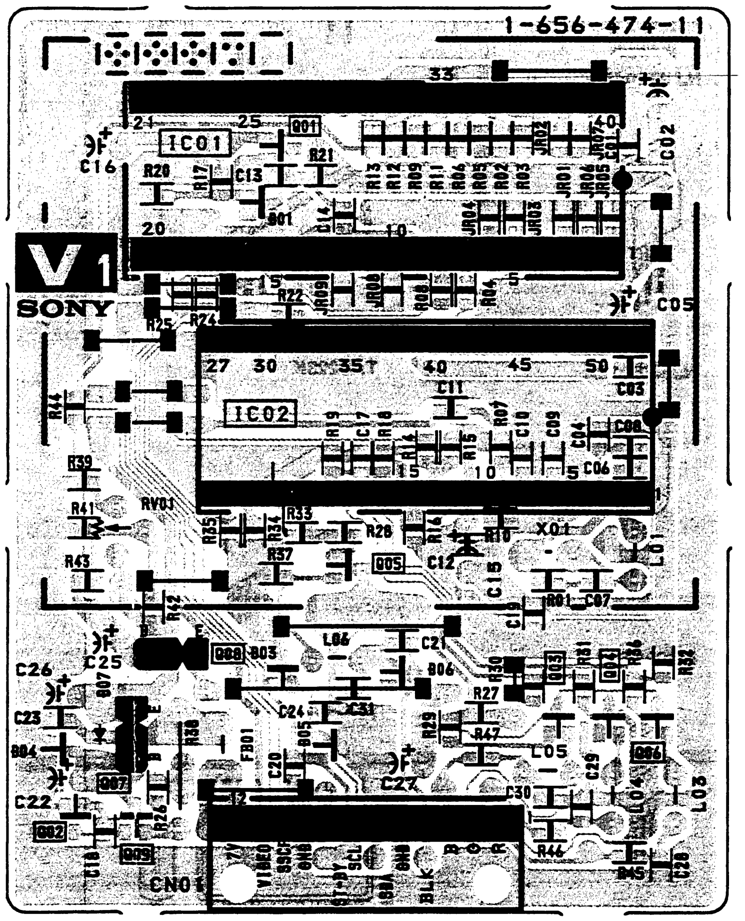
A1 [SIF] **C** [RGB OUT] **V1** [TELE TEXT]

– C Board –



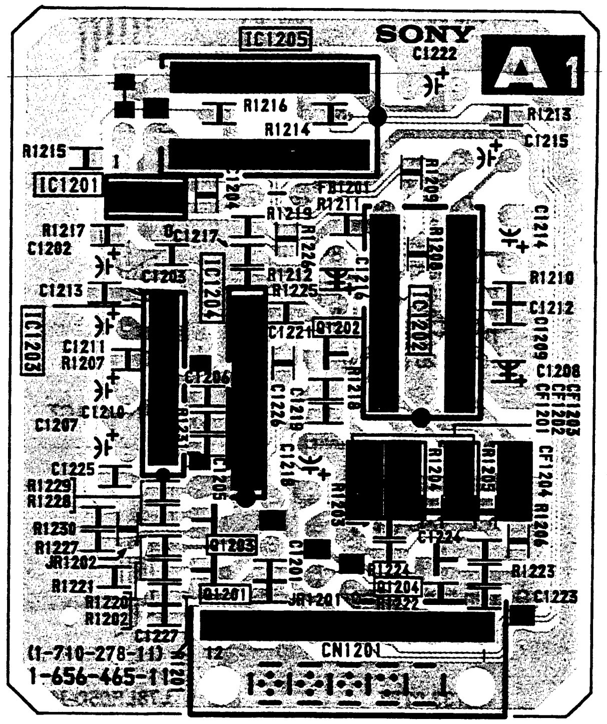
Q704
Q710
Q701
Q707
Q711
Q705
Q708
Q703
Q709
Q706
Q712
Q713
Q714
Q702
R731
R739
R720
R722
R753
R747
R749
R708
R702
R705
R706
R701
RV701
RV702
R703
CN703
IK
GND
9V
B IN
G IN
R IN
H.BLK
CN701
H1
GND
200V
1000V
CN704
J701
C701
C703
C704
L701
L702
L704
L705
L706
L707
SONY
1-656-470-11
(171028311)

– V1 Board – (KV-G25M11 only)



1-656-474-11
V1
SONY
IC01
IC02
Q01
RV01
X01
L01
L03
L04
L05
L06
CN01
C02
C05
C16
C22
C23
C25
C26
C27
C30

– A1 Board –



SONY
A1
IC1201
IC1202
IC1203
IC1204
IC1205
CN1201
Q1201
Q1202
Q1203
Q1204
CF1201
CF1202
(1-710-278-11)
1-656-465-11

SECTION 7

EXPLODED VIEW

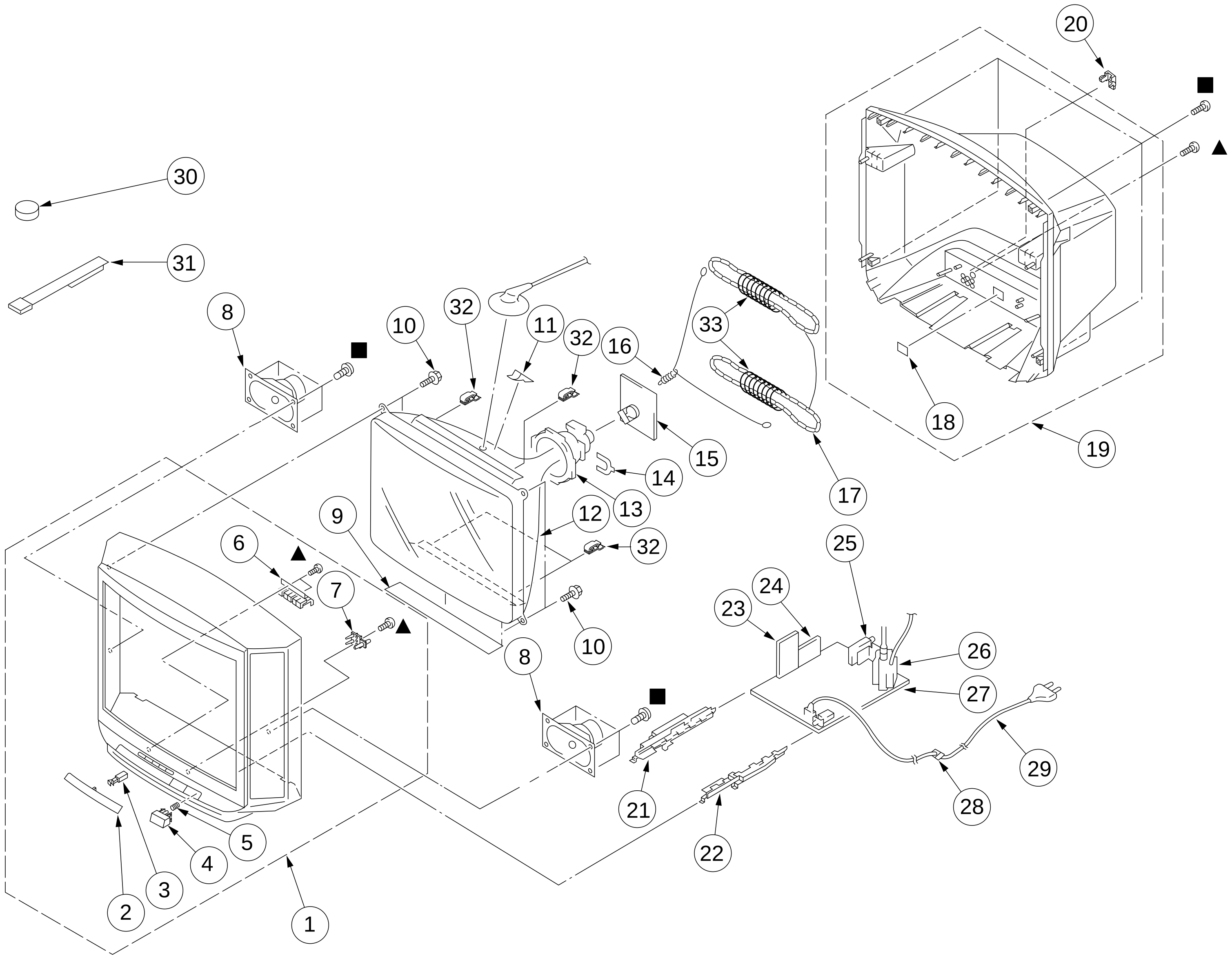
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

7-1. CHASSIS

■ : BVTP4 × 16 7-685-663-71
▲ : BVTP3 × 12 7-685-648-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	X-4035-538-1	BEZNET ASSY (KV-J14KD7)	2-7
	X-4035-539-1	BEZNET ASSY (KV-J14KF7)	2-7
2	4-064-292-11	DOOR, CONTROL (KV-J14KD7)	
	4-064-292-21	DOOR, CONTROL (KV-J14KF7)	
3	4-047-464-01	CATCHER, PUSH	
4	4-064-293-11	BUTTON, POWER (KV-J14KD7)	
	4-064-293-21	BUTTON, POWER (KV-J14KF7)	
5	4-036-405-11	SPRING, COMPRESSION	
6	4-055-545-11	BUTTON, MULTI (KV-J14KD7)	
	4-055-545-21	BUTTON, MULTI (KV-J14KF7)	
7	* 4-064-294-11	GUIDE, LIGHT	
8	1-504-305-11	SPEAKER (5X12CM)	
9	4-372-556-31	SHEET, BLOTTING	
10	4-365-808-01	SCREW (5), TAPPING	
11	4-046-600-11	SPACER, DY	
12	⚠ 8-735-562-05	PICTURE TUBE (A34JBU70X)	
13	8-451-418-21	DEFLECTION YOKE (Y14NDA2)	
14	1-452-277-00	MAGNET, BMC	
15	* A-1331-592-A	C BOARD, COMPLETE	
16	4-369-318-61	SPRING, TENSION	
17	⚠ 1-426-145-13	COIL, DEGAUSSING	
18	4-049-416-01	SHEET, BLIND	
19	⚠ X-4035-541-1	COVER ASSY, REAR (KV-J14KD7)	18
	⚠ X-4035-542-1	COVER ASSY, REAR (KV-J14KF7)	18
20	4-049-130-01	CLAMPER, CORD	
21	* 4-061-831-01	RAIL (L), GUIDE	
22	* 4-061-832-01	RAIL (R), GUIDE	
23	* A-1293-378-A	A11 BOARD, COMPLETE	
24	* A-1293-432-A	A12 BOARD, COMPLETE (KV-J14KF7 only)	
25	⚠ 8-598-323-20	TUNER, VSS BT-AG401	
26	⚠ 1-453-194-11	TRANSFORMER ASSY, FLYBACK (NX-1723//M3A)	
27	* A-1298-712-A	A BOARD, COMPLETE (KV-J14KD7)	
	* A-1298-713-A	A BOARD, COMPLETE (KV-J14KF7)	
28	⚠ 4-389-778-11	HOLDER, AC CORD	
29	⚠ 1-782-173-11	CORD, POWER	
30	1-452-032-00	MAGNET,DISC	
31	4-051-736-12	PIECE A(90), CONV. CORRECT	
32	4-390-169-12	HOLDER, DGC	
33	* 4-045-290-11	CUSHION (50X290), DGC	

SECTION 8

ELECTRICAL PARTS LIST

A

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

EMARK

RESISTORS
- All resistors are in ohms
- F : nonflammable

CAPACITORS
- MF : µF, PF : µµF

COILS
- MMH : µH, UH : µH

REF.NO.	PART NO.	DESCRIPTION			REMARK
	* A-1298-712-A	A BOARD, COMPLETE (KV-J14KD7)			
		*********************			
	* A-1298-713-A	A BOARD, COMPLETE (KV-J14KF7)			
		*********************			
	1-533-223-11	CLIP, FUSE			
	* 1-580-798-11	CONNECTOR PIN (DY) 6P			
	* 3-691-950-01	SPACER, P.C.BOARD (KV-J14KF7 ONLY)			
	4-044-755-01	HOLDER, FBT			
	* 4-367-524-32	CASE, SHIELD (LID UPPER)			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	7-685-648-79	SCREW +BVTP	3X12 TYPE2 IT-3		
		<CAPACITOR>			
C001	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C002	1-126-965-11	ELECT	22MF	20%	50V
C003	1-102-973-00	CERAMIC	100PF	5%	50V
C004	1-126-961-11	ELECT	2.2MF	20%	50V
C007	1-126-959-11	ELECT	0.47MF	20%	50V
C009	1-102-824-00	CERAMIC	470PF	5%	50V
C010	1-136-157-00	FILM	0.022MF	5%	50V
C011	1-104-664-11	ELECT	47MF	20%	16V
C012	1-102-973-00	CERAMIC	100PF	5%	50V
C015	1-101-884-00	CERAMIC	56PF	5%	50V
C016	1-101-884-00	CERAMIC	56PF	5%	50V
C017	1-102-973-00	CERAMIC	100PF	5%	50V
C018	1-102-973-00	CERAMIC	100PF	5%	50V
C021	1-102-074-00	CERAMIC	0.001MF	10%	50V
C022	1-102-074-00	CERAMIC	0.001MF	10%	50V
C023	1-102-074-00	CERAMIC	0.001MF	10%	50V
C024	1-102-074-00	CERAMIC	0.001MF	10%	50V
C025	1-102-074-00	CERAMIC	0.001MF	10%	50V
C026	1-102-074-00	CERAMIC	0.001MF	10%	50V
C027	1-102-074-00	CERAMIC	0.001MF	10%	50V
C032	1-102-129-00	CERAMIC	0.01MF	10%	50V
C034	1-136-165-00	FILM	0.1MF	5%	50V
C042	1-102-973-00	CERAMIC	100PF	5%	50V
C044	1-102-973-00	CERAMIC	100PF	5%	50V
C046	1-102-973-00	CERAMIC	100PF	5%	50V
C048	1-136-165-00	FILM	0.1MF	5%	50V
C049	1-136-165-00	FILM	0.1MF	5%	50V
C050	1-126-960-11	ELECT	1MF	20%	50V
C051	1-102-973-00	CERAMIC	100PF	5%	50V
C052	1-136-165-00	FILM	0.1MF	5%	50V
C053	1-102-074-00	CERAMIC	0.001MF	10%	50V
C054	1-102-074-00	CERAMIC	0.001MF	10%	50V
C055	1-126-941-11	ELECT	470MF	20%	25V
C056	1-102-074-00	CERAMIC	0.001MF	10%	50V
C057	1-102-852-91	CERAMIC	47PF	5%	50V
C058	1-102-973-00	CERAMIC	100PF	5%	50V
C059	1-102-973-00	CERAMIC	100PF	5%	50V
C060	1-102-074-00	CERAMIC	0.001MF	10%	50V
C061	1-126-961-11	ELECT	2.2MF	20%	50V
C072	1-126-941-11	ELECT	470MF	20%	25V
C074	1-102-110-00	CERAMIC	220PF	10%	50V
C101	1-101-003-00	CERAMIC	0.0047MF		50V
C102	1-136-165-00	FILM	0.1MF	5%	50V
C105	1-126-933-11	ELECT	100MF	20%	16V
C106	1-126-964-51	ELECT	10MF	20%	50V
C108	1-126-767-11	ELECT	1000MF	20%	16V
C109	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C111	1-102-074-00	CERAMIC	0.001MF	10%	50V
C114	1-102-973-00	CERAMIC	100PF	5%	50V
C115	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C116	1-136-165-00	FILM	0.1MF	5%	50V
C117	1-102-973-00	CERAMIC	100PF	5%	50V
C118	1-126-965-11	ELECT	22MF	20%	50V
C119	1-136-153-00	FILM	0.01MF	5%	50V
C120	1-130-493-00	MYLAR	0.068MF	5%	50V
C121	1-130-493-00	MYLAR	0.068MF	5%	50V
C122	1-126-933-11	ELECT	100MF	20%	16V
C124	1-136-165-00	FILM	0.1MF	5%	50V
C125	1-136-165-00	FILM	0.1MF	5%	50V
C233	1-126-963-11	ELECT	4.7MF	20%	50V
		(KV-J14KF7 ONLY)			
C234	1-126-964-51	ELECT	10MF	20%	50V
C235	1-104-664-11	ELECT	47MF	20%	16V
C236	1-104-666-11	ELECT	220MF	20%	25V
C237	1-126-933-11	ELECT	100MF	20%	16V
C238	1-137-188-51	FILM	0.15MF	5%	50V
C239	1-126-933-11	ELECT	100MF	20%	16V
		(KV-J14KF7 ONLY)			
C240	1-137-188-51	FILM	0.15MF	5%	50V
		(KV-J14KF7 ONLY)			
C241	1-126-942-61	ELECT	1000MF	20%	25V
C242	1-136-153-00	FILM	0.01MF	5%	50V
C243	1-128-551-11	ELECT	22MF	20%	25V
C244	1-126-942-61	ELECT	1000MF	20%	25V
C246	1-126-965-11	ELECT	22MF	20%	50V
		(KV-J14KF7 ONLY)			
C247	1-126-942-61	ELECT	1000MF	20%	25V
		(KV-J14KF7 ONLY)			
C252	1-126-961-11	ELECT	2.2MF	20%	50V
C253	1-126-933-11	ELECT	100MF	20%	16V

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C254	1-136-155-00	FILM	0.015MF	5%	50V
		(KV-J14KF7 ONLY)			
C255	1-136-155-00	FILM	0.015MF	5%	50V
		(KV-J14KF7 ONLY)			
C257	1-137-188-51	FILM	0.15MF	5%	50V
		(KV-J14KF7 ONLY)			
C258	1-137-188-51	FILM	0.15MF	5%	50V
C300	1-104-664-11	ELECT	47MF	20%	16V
C304	1-136-165-00	FILM	0.1MF	5%	50V
C305	1-136-165-00	FILM	0.1MF	5%	50V
C306	1-136-165-00	FILM	0.1MF	5%	50V
C307	1-136-165-00	FILM	0.1MF	5%	50V
C308	1-136-165-00	FILM	0.1MF	5%	50V
C309	1-136-165-00	FILM	0.1MF	5%	50V
C310	1-136-165-00	FILM	0.1MF	5%	50V
C311	1-102-951-00	CERAMIC	15PF	5%	50V
C312	1-102-951-00	CERAMIC	15PF	5%	50V
C313	1-126-933-11	ELECT	100MF	20%	16V
C314	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C315	1-126-959-11	ELECT	0.47MF	20%	50V
C316	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C317	1-126-961-11	ELECT	2.2MF	20%	50V
		(KV-J14KD7 ONLY)			
C319	1-136-165-00	FILM	0.1MF	5%	50V
C320	1-136-165-00	FILM	0.1MF	5%	50V
C321	1-136-165-00	FILM	0.1MF	5%	50V
C323	1-102-959-00	CERAMIC	22PF	5%	50V
C324	1-126-961-11	ELECT	2.2MF	20%	50V
C325	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C326	1-102-949-00	CERAMIC	12PF	5%	50V
C327	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C328	1-136-153-00	FILM	0.01MF	5%	50V
C329	1-130-478-00	MYLAR	0.0039MF	5%	50V
C330	1-136-165-00	FILM	0.1MF	5%	50V
C331	1-126-964-51	ELECT	10MF	20%	50V
C332	1-136-165-00	FILM	0.1MF	5%	50V
C333	1-136-165-00	FILM	0.1MF	5%	50V
C334	1-102-123-00	CERAMIC	0.0033MF	10%	50V
C335	1-102-973-00	CERAMIC	100PF	5%	50V
C336	1-126-964-51	ELECT	10MF	20%	50V
C337	1-126-933-11	ELECT	100MF	20%	16V
C339	1-101-361-00	CERAMIC	150PF	5%	50V
C340	1-136-153-00	FILM	0.01MF	5%	50V
C341	1-102-973-00	CERAMIC	100PF	5%	50V
C342	1-136-165-00	FILM	0.1MF	5%	50V
C344	1-126-964-51	ELECT	10MF	20%	50V
C349	1-126-963-11	ELECT	4.7MF	20%	50V
C359	1-126-933-11	ELECT	100MF	20%	16V
C361	1-102-074-00	CERAMIC	0.001MF	10%	50V
C367	1-136-165-00	FILM	0.1MF	5%	50V
C368	1-136-165-00	FILM	0.1MF	5%	50V
C369	1-136-165-00	FILM	0.1MF	5%	50V
C370	1-136-165-00	FILM	0.1MF	5%	50V
C374	1-126-967-11	ELECT	47MF	20%	50V
C375	1-126-967-11	ELECT	47MF	20%	50V
C402	1-136-153-00	FILM	0.01MF	5%	50V
C403	1-126-965-11	ELECT	22MF	20%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C405	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C406	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C407	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C408	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C410	1-102-961-00	CERAMIC	27PF	5%	50V
C411	1-101-888-00	CERAMIC	68PF	5%	50V
C423	1-102-820-00	CERAMIC	330PF	5%	50V
C501	1-102-228-00	CERAMIC	470PF	10%	500V
C523	1-126-933-11	ELECT	100MF	20%	16V
C548	1-106-220-00	MYLAR	0.1MF	10%	100V
C551	1-126-948-11	ELECT	100MF	20%	35V
C552	1-126-948-11	ELECT	100MF	20%	35V
C553	1-102-127-00	CERAMIC	0.0068MF	10%	50V
C554	1-102-244-00	CERAMIC	220PF	10%	500V
C555	1-101-804-00	CERAMIC	10PF	5%	500V
C562	1-126-933-11	ELECT	100MF	20%	16V
C603	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C604	1-117-751-11	ELECT(BLOCK)	220MF	20%	450V
C605	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C606	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C608	1-104-332-11	CERAMIC	470PF	10%	2KV
C609	1-124-347-00	ELECT	100MF	20%	160V
C610	1-126-943-11	ELECT	2200MF	20%	25V
C611 ⚠	1-117-697-51	CERAMIC	470PF	10%	250V
C612	1-102-228-00	CERAMIC	470PF	10%	500V
C613	1-102-824-00	CERAMIC	470PF	5%	50V
C614	1-126-943-11	ELECT	2200MF	20%	25V
C616	1-102-228-00	CERAMIC	470PF	10%	500V
C617	1-104-666-11	ELECT	220MF	20%	25V
C618	1-102-114-00	CERAMIC	470PF	10%	50V
C619	1-162-116-00	CERAMIC	680PF	10%	2KV
C619	1-162-116-00	CERAMIC	680PF	10%	2KV
C621 ⚠	1-104-705-51	FILM	0.1MF	20%	250V
C622	1-106-383-00	MYLAR	0.047MF	10%	200V
C623	1-126-934-11	ELECT	220MF	20%	16V
C624	1-126-767-11	ELECT	1000MF	20%	16V
C625	1-102-074-00	CERAMIC	0.001MF	10%	50V
C627	1-162-116-00	CERAMIC	680PF	10%	2KV
C628	1-102-824-00	CERAMIC	470PF	5%	50V
C630 ⚠	1-117-697-51	CERAMIC	470PF	10%	250V
C631	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C632 ⚠	1-117-697-51	CERAMIC	470PF	10%	250V
C633	1-161-754-00	CERAMIC	0.001MF	10%	3KV
C634	1-102-114-00	CERAMIC	470PF	10%	50V
C801	1-123-024-21	ELECT	33MF		160V
C802	1-107-364-11	MYLAR	0.01MF	10%	200V
C804	1-102-074-00	CERAMIC	0.001MF	10%	50V
C805	1-102-244-00	CERAMIC	220PF	10%	500V
C806	1-126-960-11	ELECT	1MF	20%	50V
C809	1-162-115-00	CERAMIC	330PF	10%	2KV
C810	1-106-365-00	MYLAR	0.0082MF	99%	200V
C811	1-101-821-00	CERAMIC	0.0022MF		500V
C812	1-136-075-00	FILM	0.008MF	3%	2KV
C816	1-107-636-11	ELECT	10MF	20%	160V
C820	1-162-116-00	CERAMIC	680PF	10%	2KV
C821	1-106-381-12	MYLAR	0.039MF	10%	200V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C822	1-136-121-00	FILM	0.27MF	5%	200V
C823	1-136-153-00	FILM	0.01MF	5%	50V
C825	1-107-364-11	MYLAR	0.01MF	10%	200V
C850	1-126-941-11	ELECT	470MF	20%	25V
C852	1-104-574-11	CERAMIC	0.0047MF	10%	2KV
C853	1-162-318-11	CERAMIC	0.001MF	10%	500V
C854	1-126-941-11	ELECT	470MF	20%	25V
C856	1-162-318-11	CERAMIC	0.001MF	10%	500V
C857	1-130-493-00	MYLAR	0.068MF	5%	50V
C860	1-102-228-00	CERAMIC	470PF	10%	500V
C861	1-107-654-11	ELECT	33MF	20%	250V
C876	1-107-369-11	MYLAR	0.068MF	10%	100V
C898	1-106-379-12	MYLAR	0.033MF	10%	100V
C901	1-102-824-00	CERAMIC	470PF	5%	50V
C902	1-102-824-00	CERAMIC	470PF	5%	50V
C1201	1-126-933-11	ELECT	100MF	20%	16V
C1202	1-136-165-00	FILM	0.1MF	5%	50V
C1203	1-136-165-00	FILM (KV-J14KF7 ONLY)	0.1MF	5%	50V
C1204	1-126-933-11	ELECT	100MF	20%	16V
C1205	1-136-165-00	FILM	0.1MF	5%	50V
C1206	1-136-165-00	FILM (KV-J14KF7 ONLY)	0.1MF	5%	50V
C1210	1-126-933-11	ELECT	100MF	20%	16V
C1213	1-126-960-11	ELECT	1MF	20%	50V
C1214	1-126-933-11	ELECT	100MF	20%	16V
C1215	1-102-976-00	CERAMIC (KV-J14KF7 ONLY)	180PF	5%	50V
C1216	1-136-173-00	FILM (KV-J14KF7 ONLY)	0.47MF	5%	50V
C1217	1-126-933-11	ELECT	100MF	20%	16V
C1218	1-102-976-00	CERAMIC	180PF	5%	50V
C1221	1-136-173-00	FILM	0.47MF	5%	50V
C1225	1-136-173-00	FILM (KV-J14KD7 ONLY)	0.47MF	5%	50V
C1226	1-126-934-11	ELECT	220MF	20%	16V
C1228	1-126-960-11	ELECT (KV-J14KD7 ONLY)	1MF	20%	50V
C1229	1-136-173-00	FILM (KV-J14KD7 ONLY)	0.47MF	5%	50V
C1230	1-136-165-00	FILM	0.1MF	5%	50V
C1259	1-102-119-00	CERAMIC (KV-J14KF7 ONLY)	0.0015MF	10%	50V
C1260	1-102-127-00	CERAMIC (KV-J14KD7)	0.0068MF	10%	50V
C1260	1-102-119-00	CERAMIC (KV-J14KF7)	0.0015MF	10%	50V
C1513	1-126-968-11	ELECT	100MF	20%	50V
		<FILTER>			
CF55	1-567-099-00	FILTER, CERAMIC			
		<CONNECTOR>			
CN101	* 1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P			
CN103	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN251	* 1-564-507-11	PLUG, CONNECTOR 4P			

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN601	* 1-580-843-11	PIN, CONNECTOR (POWER)	
CN602	* 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN603	* 1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CN851	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P	
		<COMPOSITION CIRCUIT BLOCK>	
CP001	1-233-747-11	CIRCUIT BLOCK, COMPOSITION	
CP002	1-233-749-11	CIRCUIT BLOCK, COMPOSITION	
CP003	1-233-748-11	CIRCUIT BLOCK, COMPOSITION	
CP004	1-233-750-11	CIRCUIT BLOCK, COMPOSITION	
CP005	1-233-749-11	CIRCUIT BLOCK, COMPOSITION	
		<TRIMMER>	
CT55	1-404-801-11	TRAP, CERAMIC	
		<DIODE>	
D001	8-719-109-81	DIODE RD4.7ESB2	
D002	8-719-911-19	DIODE 1SS119-25	
D003	8-719-911-19	DIODE 1SS119-25	
D005	8-719-109-84	DIODE RD5.1ESB1	
D008	8-719-109-89	DIODE RD5.6ESB2	
D103	8-719-016-42	DIODE MC932TP	
D251	8-719-911-19	DIODE 1SS119-25	
D252	8-719-016-42	DIODE MC932TP	
D301	8-719-911-19	DIODE 1SS119-25	
D302	8-719-911-19	DIODE 1SS119-25	
D304	8-719-911-19	DIODE 1SS119-25	
D305	8-719-911-19	DIODE 1SS119-25	
D306	8-719-911-19	DIODE 1SS119-25	
D307	8-719-911-19	DIODE 1SS119-25	
D308	8-719-109-54	DIODE RD2.2ESB2	
D310	8-719-911-19	DIODE 1SS119-25	
D311	8-719-109-68	DIODE RD3.6ESB1	
D312	8-719-110-08	DIODE RD8.2ESB2	
D315	8-719-121-26	DIODE RD9.1ESL2	
D351	8-719-908-03	DIODE GP08D	
D390	8-719-911-19	DIODE 1SS119-25	
D399	8-719-121-26	DIODE RD9.1ESL2	
D403	8-719-911-19	DIODE 1SS119-25	
D513	8-719-109-84	DIODE RD5.1ESB1	
D551	8-719-908-03	DIODE GP08D	
D561	8-719-911-19	DIODE 1SS119-25	
D591	8-719-911-19	DIODE 1SS119-25	
D601	8-719-510-53	DIODE D4SB60L	
D604	8-719-301-64	DIODE RU4DS	
D605	8-719-510-73	DIODE S3L20UF4	
D606	8-719-510-73	DIODE S3L20UF4	
D607	8-719-510-26	DIODE D1NL20	
D609	8-719-510-26	DIODE D1NL20	
D610	8-719-510-26	DIODE D1NL20	
D611	8-719-510-26	DIODE D1NL20	
D801	8-719-945-80	DIODE ERC06-15S	
D851	8-719-302-43	DIODE EL1Z	
D852	8-719-028-72	DIODE RGP02-17EL-6433	

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D853	8-719-302-43	DIODE EL1Z	
D855	8-719-302-43	DIODE EL1Z	
D857	8-719-908-03	DIODE GP08D	
D858	8-719-908-03	DIODE GP08D	
D860	8-719-911-19	DIODE 1SS119-25	
D901	8-719-054-60	DIODE LNK0220022G	
D1201	8-719-121-26	DIODE RD9.1ESL2	
D1202	8-719-121-26	DIODE RD9.1ESL2	
D1203	8-719-121-26	DIODE RD9.1ESL2 (KV-J14KF7 ONLY)	
D1207	8-719-121-26	DIODE RD9.1ESL2	
D1208	8-719-121-26	DIODE RD9.1ESL2	
D1504	8-719-911-19	DIODE 1SS119-25	
D1505	8-719-109-81	DIODE RD4.7ESB2	
		<FUSE>	
F601	⚠ 1-532-237-11	FUSE, TIME-LAG (BET) 3.15A/250V	
		<FERRITE BEAD>	
FB101	1-410-397-21	FERRITE 1.1UH	
FB102	1-410-397-21	FERRITE 1.1UH	
FB103	1-410-397-21	FERRITE 1.1UH	
FB251	1-410-397-21	FERRITE 1.1UH	
FB601	1-410-397-21	FERRITE 1.1UH	
FB603	1-410-397-21	FERRITE 1.1UH	
FB610	1-410-397-21	FERRITE 1.1UH	
FB612	1-410-397-21	FERRITE 1.1UH	
FB801	1-410-397-21	FERRITE 1.1UH	
		<IC>	
IC001	8-752-899-80	IC CXP85220A-071S	
IC002	8-759-805-37	IC L78LR05D-MA	
IC003	8-759-370-34	IC ST24C08FB6	
IC004	8-742-041-12	HYB IC SBX1981-11(12)	
IC102	8-759-157-40	IC UPC574J	
IC203	8-759-339-60	IC TA8248K	
IC300	8-759-365-25	IC TDA8374A	
IC351	8-759-288-85	IC TDA4665T-T	
IC521	8-759-195-63	IC PQ09RE11	
IC551	8-759-801-98	IC LA7830	
IC601	8-749-014-00	IC STR-S6707N	
IC602	8-749-921-89	IC SE115N	
IC603	⚠ 8-749-010-64	PHOTO COUPLER PC123F2	
IC801	8-759-145-58	IC UPC4558C	
IC1210	8-759-145-58	IC UPC4558C	
IC1211	8-759-711-23	IC NJM2234L (KV-J14KD7 ONLY)	
		<JACK>	
J251	1-770-785-11	JACK (KV-J14KD7)	
J251	1-770-786-11	JACK (KV-J14KF7)	
J1201	1-770-660-11	JACK BLOCK, PIN 4P (KV-J14KD7)	
J1201	1-770-661-11	JACK BLOCK, PIN 6P (KV-J14KF7)	
J1202	1-695-238-11	JACK BLOCK, PIN (L TYPE) 2P (KV-J14KD7)	
J1202	1-695-585-11	JACK BLOCK, PIN (L TYPE) 3P (KV-J14KF7)	
		<COIL>	
L001	1-408-397-00	INDUCTOR 1UH	
L002	1-410-509-11	INDUCTOR 10UH	
L003	1-408-605-31	INDUCTOR 15UH	
L101	1-410-470-11	INDUCTOR 10UH	
L301	1-408-602-31	INDUCTOR 8.2UH	
L401	1-410-498-11	INDUCTOR 1.2UH	
L402	1-410-510-11	INDUCTOR 12UH	
L406	1-410-507-11	INDUCTOR 6.8UH	
L410	1-410-501-11	INDUCTOR 2.2UH	
L802	1-412-527-11	INDUCTOR 15UH	
L805	1-460-046-11	COIL, HORIZONTAL LINEARITY	
L807	1-459-348-51	COIL, VAR, FERRITE (HWC)	
L808	1-412-553-11	INDUCTOR 3.3MMH	
L821	1-406-677-11	INDUCTOR 0UH	
L850	1-408-947-00	INDUCTOR 2.2MMH	
		<TRANSISTOR>	
Q030	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q108	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q109	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q110	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q202	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q207	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q208	8-729-030-02	TRANSISTOR DTC144ESA	
Q209	8-729-029-92	TRANSISTOR DTC143ESA (KV-J14KF7 ONLY)	
Q210	8-729-029-92	TRANSISTOR DTC143ESA	
Q301	8-729-029-66	TRANSISTOR DTC114ESA	
Q303	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
Q406	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q408	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q409	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q414	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q417	8-729-029-92	TRANSISTOR DTC143ESA	
Q561	8-729-200-17	TRANSISTOR 2SA1091-O	
Q801	8-729-140-50	TRANSISTOR 2SC3209LK	
Q802	8-729-810-49	TRANSISTOR 2SD1877S-SONY-CA	
Q902	8-729-030-02	TRANSISTOR DTC144ESA	
Q903	8-729-030-02	TRANSISTOR DTC144ESA	
Q1201	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1202	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1203	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1204	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q1207	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1208	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1209	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1265	8-729-029-92	TRANSISTOR DTC143ESA (KV-J14KD7 ONLY)	
Q1513	8-729-119-78	TRANSISTOR 2SC2785-HFE	

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<RESISTOR>			
R007	1-249-429-11	CARBON	10K	5%	1/4W
R008	1-249-421-11	CARBON	2.2K	5%	1/4W
R009	1-249-417-11	CARBON	1K	5%	1/4W
R010	1-249-417-11	CARBON	1K	5%	1/4W
R012	1-249-401-11	CARBON	47	5%	1/4W
R013	1-249-417-11	CARBON	1K	5%	1/4W
R014	1-249-417-11	CARBON	1K	5%	1/4W
R015	1-249-417-11	CARBON	1K	5%	1/4W
R016	1-249-417-11	CARBON	1K	5%	1/4W
R017	1-249-421-11	CARBON	2.2K	5%	1/4W
R018	1-247-815-91	CARBON	220	5%	1/4W
R019	1-247-883-00	CARBON	150K	5%	1/4W
R021	1-249-425-11	CARBON	4.7K	5%	1/4W
R026	1-249-421-11	CARBON	2.2K	5%	1/4W
R027	1-249-425-11	CARBON	4.7K	5%	1/4W
R028	1-247-807-31	CARBON	100	5%	1/4W
R029	1-249-425-11	CARBON	4.7K	5%	1/4W
R031	1-249-417-11	CARBON	1K	5%	1/4W
R033	1-249-417-11	CARBON	1K	5%	1/4W
R035	1-249-417-11	CARBON	1K	5%	1/4W
R036	1-249-417-11	CARBON	1K	5%	1/4W
R038	1-247-815-91	CARBON	220	5%	1/4W
R040	1-247-815-91	CARBON	220	5%	1/4W
R041	1-247-807-31	CARBON	100	5%	1/4W
R042	1-249-412-11	CARBON	390	5%	1/4W
R045	1-249-421-11	CARBON	2.2K	5%	1/4W
R047	1-247-807-31	CARBON	100	5%	1/4W
R048	1-247-807-31	CARBON	100	5%	1/4W
R054	1-249-429-11	CARBON	10K	5%	1/4W
R057	1-249-417-11	CARBON	1K	5%	1/4W
R060	1-249-411-11	CARBON	330	5%	1/4W
R061	1-249-417-11	CARBON	1K	5%	1/4W
R062	1-249-421-11	CARBON	2.2K	5%	1/4W
R063	1-249-421-11	CARBON	2.2K	5%	1/4W
R065	1-247-815-91	CARBON	220	5%	1/4W
R066	1-247-815-91	CARBON	220	5%	1/4W
R068	1-247-807-31	CARBON	100	5%	1/4W
R071	1-249-411-11	CARBON	330	5%	1/4W
R076	1-247-807-31	CARBON	100	5%	1/4W
R077	1-247-807-31	CARBON	100	5%	1/4W
R090	1-249-429-11	CARBON	10K	5%	1/4W
R101	1-249-425-11	CARBON	4.7K	5%	1/4W
R102	1-249-417-11	CARBON	1K	5%	1/4W
R113	1-247-863-91	CARBON	22K	5%	1/4W
R114	1-249-413-11	CARBON	470	5%	1/4W
R115	1-247-863-91	CARBON	22K	5%	1/4W
R116	1-247-863-91	CARBON	22K	5%	1/4W
R117	1-247-863-91	CARBON	22K	5%	1/4W
R118	1-247-863-91	CARBON	22K	5%	1/4W
R119	1-249-420-11	CARBON	1.8K	5%	1/4W
R120	1-247-891-00	CARBON	330K	5%	1/4W
R131	1-216-464-11	METAL OXIDE	18K	5%	2W F
R180	1-247-815-91	CARBON	220	5%	1/4W
R181	1-247-815-91	CARBON	220	5%	1/4W
R182	1-247-815-91	CARBON	220	5%	1/4W
R240	1-249-408-11	CARBON	180	5%	1/4W
		(KV-J14KD7)			
R240	1-249-411-11	CARBON	330	5%	1/4W
		(KV-J14KF7)			
R241	1-136-165-00	FILM	0.1MF	5%	50V
		(KV-J14KD7 ONLY)			
R242	1-249-408-11	CARBON	180	5%	1/4W
		(KV-J14KD7)			
R242	1-249-411-11	CARBON	330	5%	1/4W
		(KV-J14KF7)			
R243	1-249-429-11	CARBON	10K	5%	1/4W
R244	1-249-429-11	CARBON	10K	5%	1/4W
R245	1-249-422-11	CARBON	2.7K	5%	1/4W
R246	1-249-422-11	CARBON	2.7K	5%	1/4W
		(KV-J14KF7 ONLY)			
R247	1-249-416-11	CARBON	820	5%	1/4W
		(KV-J14KF7 ONLY)			
R248	1-249-428-11	CARBON	8.2K	5%	1/4W
		(KV-J14KD7)			
R248	1-249-416-11	CARBON	820	5%	1/4W
		(KV-J14KF7)			
R249	1-249-417-11	CARBON	1K	5%	1/4W
		(KV-J14KF7 ONLY)			
R250	1-249-428-11	CARBON	8.2K	5%	1/4W
		(KV-J14KD7)			
R250	1-249-417-11	CARBON	1K	5%	1/4W
		(KV-J14KF7)			
R251	1-249-417-11	CARBON	1K	5%	1/4W
R252	1-247-815-91	CARBON	220	5%	1/4W
R253	1-249-429-11	CARBON	10K	5%	1/4W
R254	1-249-389-11	CARBON	4.7	5%	1/4W
R255	1-249-389-11	CARBON	4.7	5%	1/4W
		(KV-J14KF7 ONLY)			
R256	1-247-815-91	CARBON	220	5%	1/4W
		(KV-J14KF7 ONLY)			
R264	1-249-424-11	CARBON	3.9K	5%	1/4W
		(KV-J14KF7 ONLY)			
R265	1-247-843-11	CARBON	3.3K	5%	1/4W
		(KV-J14KD7)			
R265	1-249-424-11	CARBON	3.9K	5%	1/4W
		(KV-J14KF7)			
R266	1-249-429-11	CARBON	10K	5%	1/4W
R303	1-247-807-31	CARBON	100	5%	1/4W
R304	1-247-807-31	CARBON	100	5%	1/4W
R305	1-247-815-91	CARBON	220	5%	1/4W
R306	1-247-815-91	CARBON	220	5%	1/4W
R307	1-247-815-91	CARBON	220	5%	1/4W
R308	1-247-815-91	CARBON	220	5%	1/4W
R309	1-247-815-91	CARBON	220	5%	1/4W
R310	1-249-441-11	CARBON	100K	5%	1/4W
R311	1-249-430-11	CARBON	12K	5%	1/4W
R312	1-247-807-31	CARBON	100	5%	1/4W
R313	1-249-419-11	CARBON	1.5K	5%	1/4W
R314	1-247-807-31	CARBON	100	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W
R319	1-259-877-11	CARBON	1.2M	5%	1/4W
R320	1-249-434-11	CARBON	27K	5%	1/4W
R321	1-215-459-00	METAL	39K	1%	1/4W
R322	1-249-434-11	CARBON	27K	5%	1/4W
R326	1-249-424-11	CARBON	3.9K	5%	1/4W

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK	
R330	1-249-414-11	CARBON	560	5%	1/4W	
R331	1-247-899-11	CARBON	680K	5%	1/4W	
R332	1-247-815-91	CARBON	220	5%	1/4W	
R333	1-249-431-11	CARBON	15K	5%	1/4W	
		(KV-J14KD7 ONLY)				
R335	1-249-429-11	CARBON	10K	5%	1/4W	
R336	1-249-421-11	CARBON	2.2K	5%	1/4W	
R339	1-215-408-00	METAL	300	1%	1/4W	
R340	1-249-410-11	CARBON	270	5%	1/4W	
R341	1-249-417-11	CARBON	1K	5%	1/4W	
R351	1-249-393-11	CARBON	10	5%	1/4W	
R355	1-249-393-11	CARBON	10	5%	1/4W	
R356	1-249-417-11	CARBON	1K	5%	1/4W	
R360	1-259-884-11	CARBON	4.7M	5%	1/4W	
R403	1-249-403-11	CARBON	68	5%	1/4W	
R406	1-249-425-11	CARBON	4.7K	5%	1/4W	
R407	1-249-424-11	CARBON	3.9K	5%	1/4W	
R408	1-249-420-11	CARBON	1.8K	5%	1/4W	
R409	1-247-807-31	CARBON	100	5%	1/4W	
R416	1-247-815-91	CARBON	220	5%	1/4W	
R419	1-249-417-11	CARBON	1K	5%	1/4W	
R420	1-249-412-11	CARBON	390	5%	1/4W	
R421	1-247-815-91	CARBON	220	5%	1/4W	
R424	1-249-421-11	CARBON	2.2K	5%	1/4W	
R425	1-249-412-11	CARBON	390	5%	1/4W	
R426	1-249-407-11	CARBON	150	5%	1/4W	
R429	1-249-412-11	CARBON	390	5%	1/4W	
R433	1-247-863-91	CARBON	22K	5%	1/4W	
R434	1-249-413-11	CARBON	470	5%	1/4W	
R440	1-249-407-11	CARBON	150	5%	1/4W	
R521	1-249-417-11	CARBON	1K	5%	1/4W	
R555	1-249-427-11	CARBON	6.8K	5%	1/4W	
R556	1-249-417-11	CARBON	1K	5%	1/4W	
R557	1-249-420-11	CARBON	1.8K	5%	1/4W	
R561	1-249-421-11	CARBON	2.2K	5%	1/4W	
R562	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R563	1-260-126-11	CARBON	180K	5%	1/2W	
R564	1-249-438-11	CARBON	56K	5%	1/4W	
R565	1-249-438-11	CARBON	56K	5%	1/4W	
R566	1-249-425-11	CARBON	4.7K	5%	1/4W	
R569	1-260-125-11	CARBON	150K	5%	1/2W	
R571	1-247-815-91	CARBON	220	5%	1/4W	
R610	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R611	1-202-933-61	FUSIBLE	0.1	10%	1/2W	F
R612	1-249-377-11	CARBON	0.47	5%	1/4W	F
		(KV-J14KD7)				
R612	1-219-134-11	FUSIBLE	0.1	10%	1/4W	
		(KV-J14KF7)				
R613	1-219-134-11	FUSIBLE	0.1	10%	1/4W	
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	F
R615	1-249-389-11	CARBON	4.7	5%	1/4W	
		(KV-J14KF7 ONLY)				
R616 ⚠	1-247-289-11	CARBON	8.2M	5%	1W	
R617	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R618	1-249-377-11	CARBON	0.47	5%	1/4W	F
		(KV-J14KD7)				
R618	1-219-134-11	FUSIBLE	0.1	10%	1/4W	
		(KV-J14KF7)				
R619	1-219-134-11	FUSIBLE	0.1	10%	1/4W	
R620	1-202-962-11	CEMENTED	3.3	5%	10W	
R622	1-207-615-00	METAL	0.33	10%	2W	
R623	1-247-807-31	CARBON	100	5%	1/4W	
R624	1-216-446-00	METAL OXIDE	18	5%	2W	F
R625	1-249-424-11	CARBON	3.9K	5%	1/4W	
R626	1-249-420-11	CARBON	1.8K	5%	1/4W	
R627	1-249-417-11	CARBON	1K	5%	1/4W	
R628	1-249-417-11	CARBON	1K	5%	1/4W	
R629	1-249-401-11	CARBON	47	5%	1/4W	
R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R801	1-215-921-11	METAL OXIDE	4.7K	5%	3W	F
R803	1-249-421-11	CARBON	2.2K	5%	1/4W	
R804	1-249-417-11	CARBON	1K	5%	1/4W	
R805	1-247-863-91	CARBON	22K	5%	1/4W	
R809	1-247-763-11	CARBON	8.2K	5%	1/2W	F
R811	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R816	1-249-437-11	CARBON	47K	5%	1/4W	
R820	1-249-419-11	CARBON	1.5K	5%	1/4W	
R821	1-216-475-11	METAL OXIDE	120	5%	3W	F
R822	1-216-429-00	METAL OXIDE	270	5%	1W	F
R823	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R824	1-215-889-00	METAL OXIDE	330	5%	2W	F
R825	1-249-392-11	CARBON	8.2	5%	1/4W	F
R829	1-215-421-00	METAL	1K	1%	1/4W	
R831	1-215-887-00	METAL OXIDE	150	5%	2W	F
R834	1-249-425-11	CARBON	4.7K	5%	1/4W	
R851	1-249-382-11	CARBON	1.2	5%	1/4W	F
R852	1-249-923-11	CARBON	1K	5%	1/4W	F
R853	1-249-377-11	CARBON	0.47	5%	1/4W	F
R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R855	1-260-107-11	CARBON	4.7K	5%	1/2W	
R856	1-249-429-11	CARBON	10K	5%	1/4W	
R857	1-249-440-11	CARBON	82K	5%	1/4W	
R858	1-216-370-11	METAL OXIDE	1.2	5%	2W	F
R860	1-247-887-00	CARBON	220K	5%	1/4W	
R883	1-215-466-00	METAL	75K	1%	1/4W	
R895	1-216-349-00	METAL OXIDE	1	5%	1W	F
R898	1-249-421-11	CARBON	2.2K	5%	1/4W	
R902	1-249-425-11	CARBON	4.7K	5%	1/4W	
R904	1-249-425-11	CARBON	4.7K	5%	1/4W	
R905	1-249-417-11	CARBON	1K	5%	1/4W	
R906	1-249-417-11	CARBON	1K	5%	1/4W	
R907	1-249-420-11	CARBON	1.8K	5%	1/4W	
R908	1-249-420-11	CARBON	1.8K	5%	1/4W	
R909	1-247-843-11	CARBON	3.3K	5%	1/4W	
R910	1-247-843-11	CARBON	3.3K	5%	1/4W	
R911	1-249-428-11	CARBON	8.2K	5%	1/4W	
R913	1-249-413-11	CARBON	470	5%	1/4W	
R914	1-249-413-11	CARBON	470	5%	1/4W	
R915	1-249-428-11	CARBON	8.2K	5%	1/4W	
R1201	1-249-404-00	CARBON	82	5%	1/4W	
R1202	1-249-417-11	CARBON	1K	5%	1/4W	
R1203	1-249-437-11	CARBON	47K	5%	1/4W	
R1204	1-249-437-11	CARBON	47K	5%	1/4W	
		(KV-J14KF7 ONLY)				

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and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1205	1-249-404-00	CARBON	82	5%	1/4W
R1206	1-249-437-11	CARBON	47K	5%	1/4W
R1207	1-249-437-11	CARBON	47K	5%	1/4W
		(KV-J14KF7 ONLY)			
R1211	1-249-403-11	CARBON	68	5%	1/4W
R1212	1-249-417-11	CARBON	1K	5%	1/4W
R1213	1-249-417-11	CARBON	1K	5%	1/4W
		(KV-J14KF7 ONLY)			
R1214	1-247-895-91	CARBON	470K	5%	1/4W
		(KV-J14KF7 ONLY)			
R1215	1-247-895-91	CARBON	470K	5%	1/4W
R1216	1-247-895-91	CARBON	470K	5%	1/4W
R1217	1-249-413-11	CARBON	470	5%	1/4W
R1219	1-249-429-11	CARBON	10K	5%	1/4W
R1220	1-249-417-11	CARBON	1K	5%	1/4W
R1221	1-249-429-11	CARBON	10K	5%	1/4W
R1226	1-249-436-11	CARBON	39K	5%	1/4W
		(KV-J14KF7 ONLY)			
R1227	1-249-436-11	CARBON	39K	5%	1/4W
R1228	1-249-417-11	CARBON	1K	5%	1/4W
R1229	1-249-413-11	CARBON	470	5%	1/4W
R1230	1-249-429-11	CARBON	10K	5%	1/4W
R1231	1-249-417-11	CARBON	1K	5%	1/4W
R1232	1-249-424-11	CARBON	3.9K	5%	1/4W
R1233	1-249-421-11	CARBON	2.2K	5%	1/4W
R1234	1-249-436-11	CARBON	39K	5%	1/4W
		(KV-J14KF7 ONLY)			
R1235	1-249-436-11	CARBON	39K	5%	1/4W
R1239	1-249-389-11	CARBON	4.7	5%	1/4W F
R1240	1-247-807-31	CARBON	100	5%	1/4W
R1241	1-249-417-11	CARBON	1K	5%	1/4W
R1243	1-247-807-31	CARBON	100	5%	1/4W
R1246	1-249-411-11	CARBON	330	5%	1/4W
R1247	1-249-413-11	CARBON	470	5%	1/4W
R1248	1-249-417-11	CARBON	1K	5%	1/4W
R1249	1-249-413-11	CARBON	470	5%	1/4W
R1250	1-247-901-11	CARBON	820K	5%	1/4W
R1251	1-247-901-11	CARBON	820K	5%	1/4W
R1252	1-249-421-11	CARBON	2.2K	5%	1/4W
R1253	1-249-418-11	CARBON	1.2K	5%	1/4W
		(KV-J14KD7)			
R1253	1-249-419-11	CARBON	1.5K	5%	1/4W
		(KV-J14KF7)			
R1255	1-249-429-11	CARBON	10K	5%	1/4W
		(KV-J14KD7 ONLY)			
R1513	1-249-429-11	CARBON	10K	5%	1/4W
R1514	1-249-425-11	CARBON	4.7K	5%	1/4W
R1515	1-247-807-31	CARBON	100	5%	1/4W
		<SWITCH>			
S601 ⚠	1-571-433-31	SWITCH, PUSH (AC POWER)			
S801	1-572-707-11	SWITCH, LEVER			
S901	1-570-577-41	SWITCH, PUSH			
S902	1-570-577-41	SWITCH, PUSH			
S903	1-570-577-41	SWITCH, PUSH			
S904	1-570-577-41	SWITCH, PUSH			
S905	1-570-577-41	SWITCH, PUSH			

REF.NO.	PART NO.	DESCRIPTION	REMARK
		<SPARK GAP>	
SG801	1-519-422-11	GAP, SPARK	
		<SURFACE WAVE FILTER>	
SWF401	1-760-771-11	FILTER, SURFACE WAVE	
		<TRANSFORMER>	
T601 ⚠	1-429-137-11	TRANSFORMER, CONVERTER (SRT)	
T605 ⚠	1-431-218-11	TRANSFORMER, LINE FILTER	
T801	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T851 ⚠	1-453-194-11	TRANSFORMER ASSY, FLYBACK (NX-1723//M3A)	
		<THERMISTOR>	
THP601⚠	1-806-165-12	THERMISTOR (POSITIVE)	
		<TUNER>	
TU101 ⚠	8-598-323-20	TUNER, VSS BT-AG401	
		<CRYSTAL>	
X101	1-577-082-11	VIBRATOR, CERAMIC	
X300	1-411-752-11	COIL	
X358	1-567-505-11	OSCILLATOR, CRYSTAL	
X443	1-567-504-11	OSCILLATOR, CRYSTAL	

****

REF.NO.	PART NO.	DESCRIPTION			REMARK
*	A-1293-378-A	A11 BOARD, COMPLETE ***********************			
		<CAPACITOR>			
C414	1-102-973-00	CERAMIC	100PF	5%	50V
C417	1-102-973-00	CERAMIC	100PF	5%	50V
C418	1-102-820-00	CERAMIC	330PF	5%	50V
		<FILTER>			
CF65	1-567-101-11	FILTER, CERAMIC			
		<CONNECTOR>			
CN401 *	1-778-603-11	PIN, CONNECTOR (PC BOARD) 12P			
		<TRIMMER>			
CT65	1-409-327-00	TRAP, CERAMIC (6.5MHZ)			

A11 A12 (KV-J14KF7) C

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<IC>			
IC401	8-759-800-65	IC LA7910			
		<COIL>			
L407	1-410-511-11	INDUCTOR	15UH		
L408	1-410-500-11	INDUCTOR	1.8UH		
		<TRANSISTOR>			
Q410	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q411	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q413	8-729-029-92	TRANSISTOR DTC143ESA			
		<RESISTOR>			
R414	1-249-413-11	CARBON	470	5%	1/4W
R427	1-249-411-11	CARBON	330	5%	1/4W
R428	1-247-863-91	CARBON	22K	5%	1/4W
R430	1-249-413-11	CARBON	470	5%	1/4W

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	* A-1293-432-A	A12 BOARD, COMPLETE (KV-J14KF7 ONLY) ***********************			
		<CAPACITOR>			
C201	1-126-960-11	ELECT	1MF	20%	50V
C202	1-126-933-11	ELECT	100MF	20%	16V
C203	1-126-960-11	ELECT	1MF	20%	50V
C204	1-126-933-11	ELECT	100MF	20%	16V
C205	1-136-159-00	FILM	0.033MF	5%	50V
C206	1-130-480-00	MYLAR	0.0056MF	5%	50V
C207	1-126-961-11	ELECT	2.2MF	20%	50V
C208	1-126-961-11	ELECT	2.2MF	20%	50V
C209	1-130-480-00	MYLAR	0.0056MF	5%	50V
C210	1-136-159-00	FILM	0.033MF	5%	50V
C211	1-136-165-00	FILM	0.1MF	5%	50V
C1212	1-126-960-11	ELECT	1MF	20%	50V
C1219	1-126-933-11	ELECT	100MF	20%	16V
C1222	1-136-173-00	FILM	0.47MF	5%	50V
C1223	1-126-960-11	ELECT	1MF	20%	50V
C1225	1-136-173-00	FILM	0.47MF	5%	50V
C1228	1-126-960-11	ELECT	1MF	20%	50V
		<CONNECTOR>			
CN1211	* 1-778-603-11	PIN, CONNECTOR (PC BOARD) 12P			
CN1212	* 1-778-603-11	PIN, CONNECTOR (PC BOARD) 12P			

REF.NO.	PART NO.	DESCRIPTION			REMARK
		<DIODE>			
D1209	8-719-121-26	DIODE RD9.1ESL2			
		<IC>			
IC201	8-759-090-21	IC TDA8424			
IC202	8-759-708-12	IC NJM78L12A			
IC1211	8-759-711-23	IC NJM2234L			
IC1212	8-759-711-23	IC NJM2234L			
		<TRANSISTOR>			
Q1205	8-729-119-76	TRANSISTOR 2SA1175-HFE			
		<RESISTOR>			
R203	1-247-815-91	CARBON	220	5%	1/4W
R204	1-247-815-91	CARBON	220	5%	1/4W
R1222	1-249-417-11	CARBON	1K	5%	1/4W
R1223	1-249-429-11	CARBON	10K	5%	1/4W
R1224	1-249-429-11	CARBON	10K	5%	1/4W
R1242	1-249-417-11	CARBON	1K	5%	1/4W
R1244	1-247-807-31	CARBON	100	5%	1/4W

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	* A-1331-592-A	C BOARD, COMPLETE *********************			
		<CAPACITOR>			
C702	1-136-601-11	FILM	0.01MF	10%	630V
C705	1-102-116-00	CERAMIC	680PF	10%	50V
C706	1-102-116-00	CERAMIC	680PF	10%	50V
C707	1-102-117-00	CERAMIC	820PF	10%	50V
C708	1-102-114-00	CERAMIC	470PF	10%	50V
C712	1-102-114-00	CERAMIC	470PF	10%	50V
C713	1-102-115-00	CERAMIC	560PF	10%	50V
C716	1-102-106-00	CERAMIC	100PF	10%	50V
		<CONNECTOR>			
CN701	1-695-915-11	TAB (CONTACT)			
CN703	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN704	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P			
		<DIODE>			
D701	8-719-991-33	DIODE 1SS133T-77			
D702	8-719-991-33	DIODE 1SS133T-77			
D703	8-719-991-33	DIODE 1SS133T-77			
D705	1-102-106-00	CERAMIC	100PF	10%	50V
D712	8-719-991-33	DIODE 1SS133T-77			

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK
D713	8-719-991-33	DIODE 1SS133T-77	
D714	8-719-991-33	DIODE 1SS133T-77	
		<JACK>	
J701	⚠ 1-251-192-11	SOCKET, CRT	
		<TRANSISTOR>	
Q701	8-729-200-17	TRANSISTOR 2SA1091-O	
Q702	8-729-200-17	TRANSISTOR 2SA1091-O	
Q703	8-729-200-17	TRANSISTOR 2SA1091-O	
Q704	8-729-326-11	TRANSISTOR 2SC2611	
Q705	8-729-326-11	TRANSISTOR 2SC2611	
Q706	8-729-326-11	TRANSISTOR 2SC2611	
		<RESISTOR>	
R701	1-260-133-11	CARBON 680K 5% 1/2W	
R702	1-260-123-11	CARBON 100K 5% 1/2W	
R703	1-260-135-11	CARBON 1M 5% 1/2W	
R705	1-260-079-11	CARBON 22 5% 1/2W	
R706	1-260-105-11	CARBON 3.3K 5% 1/2W	
R707	1-260-105-11	CARBON 3.3K 5% 1/2W	
R708	1-260-105-11	CARBON 3.3K 5% 1/2W	
R709	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R711	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R713	1-215-899-11	METAL OXIDE 15K 5% 2W	F
R714	1-247-807-31	CARBON 100 5% 1/4W	
R717	1-215-409-00	METAL 330 1% 1/4W	
R718	1-249-409-11	CARBON 220 5% 1/4W	F
R719	1-247-807-31	CARBON 100 5% 1/4W	
R720	1-216-346-00	METAL OXIDE 0.56 5% 1W	F
R722	1-215-411-00	METAL 390 1% 1/4W	
R725	1-249-409-11	CARBON 220 5% 1/4W	F
R726	1-215-479-00	METAL 270K 1% 1/4W	
R727	1-215-487-00	METAL 560K 1% 1/4W	
R728	1-215-479-00	METAL 270K 1% 1/4W	
R730	1-247-807-31	CARBON 100 5% 1/4W	
R731	1-249-409-11	CARBON 220 5% 1/4W	F
R732	1-215-411-00	METAL 390 1% 1/4W	
R733	1-247-791-91	CARBON 22 5% 1/4W	
R734	1-247-791-91	CARBON 22 5% 1/4W	
R735	1-247-791-91	CARBON 22 5% 1/4W	
R749	1-249-424-11	CARBON 3.9K 5% 1/4W	
R750	1-249-424-11	CARBON 3.9K 5% 1/4W	
R751	1-249-424-11	CARBON 3.9K 5% 1/4W	
		<VARIABLE RESISTOR>	
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
RV703	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS *****************	
	1-104-664-11	CAP, ELECT 47MF	
	1-217-806-11	RES, SQUARE CHIP 1 (3216)	
	1-417-151-21	MATCHING TRANSFORMER, ANTENNA	
	⚠ 1-426-145-13	COIL, DEGAUSSING	
	1-452-032-00	MAGNET,DISC	
	1-452-277-00	MAGNET, BMC	
	1-501-730-41	ANTENNA, TELESCOPIC	
	1-504-305-11	SPEAKER (5X12CM)	
	1-767-609-11	VIBRATOR, CERAMIC	
	⚠ 1-782-173-11	CORD, POWER	
	8-451-418-21	DEFLECTION YOKE (Y14NDA2)	
	⚠ 8-735-562-05	PICTURE TUBE (A34JBU70X)	

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ACCESSORIES AND PACKING MATERIALS
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PART NO.	DESCRIPTION
1-104-664-11	CAP, ELECT 47MF
1-217-806-11	RES, SQUARE CHIP 1 (3216)
1-417-151-21	MATCHING TRANSFORMER, ANTENNA
1-501-730-41	ANTENNA, TELESCOPIC
1-767-609-11	VIBRATOR, CERAMIC
3-864-799-21	MANUAL, INSTRUCTION
* 4-062-162-01	BAG, PROTECTION
* 4-064-548-01	INDIVIDUAL CARTON
* 4-064-549-01	CUSHION (UPPER) (ASSY)
* 4-064-550-01	CUSHION (LOWER) (ASSY)
8-719-058-59	DIODE SID303C
8-729-011-54	TRANSISTOR 2SC3265

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REMOTE COMMANDER
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PART NO.	DESCRIPTION
1-475-800-11	REMOTE COMMANDER (RM-883)

Sony Corporation
Display Company
TV Display Business Asia

9-965-697-01

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